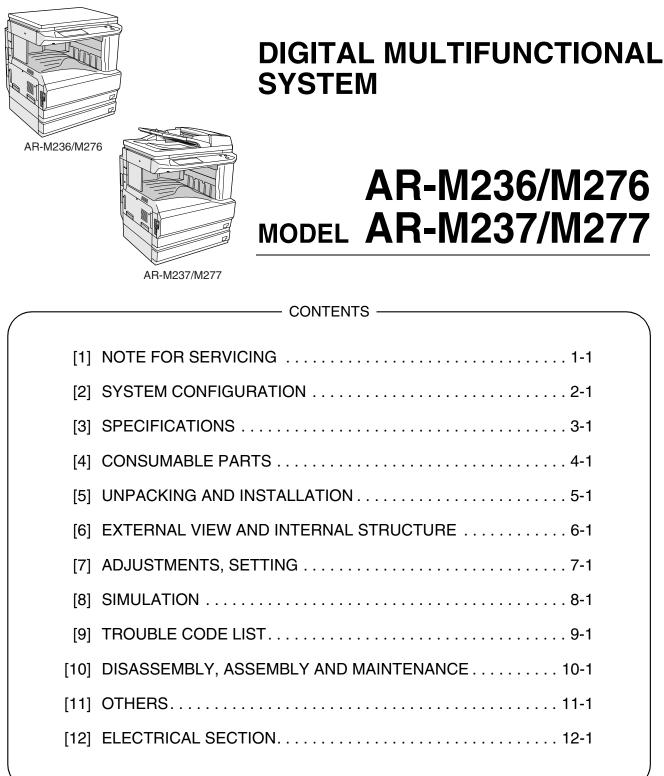
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SHARP SERVICE MANUAL

CODE: 00ZARM277/A1E



Parts marked with " \triangle " are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.



This document has been published to be used for after sales service only. The contents are subject to change without notice.

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[1] NOTE FOR SERVICING

This Service Manual uses some photographs to assure safe operation. This Service Manual uses some photographs to assure safe operation. Please understand the meanings of photographs before servicing.

▲ WARNING: If this WARNING should be ignored, a serious danger to life or a serious injury would be resulted.

▲ CAUTION: If this CAUTION should be ignored, an injury or a damage to properties would be resulted.

1. Warning for servicing

1) Be sure to connect the power cord only to a power outlet that meets the specified voltage and current requirements.

Avoid complex wiring, which may lead to a fire or an electric shock. It may cause a fire or an electric shock.

 If there is any abnormality such as a smoke or an abnormal smell, interrupt the job and disconnect the power plug.

It may cause a fire or an electric shock.

 Be sure to connect the grounding wire. If an electric leakage occurs without grounding, a fire or an electric shock may be the result.

To protect the machine and the power unit from lightening, grounding must be made.

 When connecting the grounding wire, never connect it to the following points.

It may cause an explosion, a fire or an electric shock.

- Gas tube
- · Lightning conductor
- A water pipe or a water faucet, which is not recognized as a grounding object by the authorities.
- Grounding wire for telephone line
- Do not damage, brake, or work the power cord.
 Do not put heavy objects on the power cable. Do not bend it forcibly or do not pull it extremely.

It may cause a fire or an electric shock.

- Keep the power cable away from a heat source.
 Do not insert the power plug with dust on it into a power outlet.
 It may cause a fire or an electric shock.
- 7) Do not put a receptacle with water in it or a metal piece which may drop inside the machine.

It may cause a fire or an electric shock.

 With wet or oily hands, do not touch the power plug, do not insert the telephone line jack, do not operate the machine, or do not perform servicing.

It may cause an electric shock.

2. Precautions for servicing

- When servicing, disconnect the power plug, the printer cable, the network cable, and the telephone line from the machine, except when performing the communication test, etc.
 It may cause an injury or an electric shock.
- There is a high temperature area inside the machine. Use an extreme care when servicing.

It may cause a burn.

- There is a high voltage section inside the machine which may cause an electric shock . Be careful when servicing.
- Do not disassemble the laser unit. Do not insert a reflective material such as a screwdriver in the laser beam path.

It may damage eyes by reflection of laser beams.

5) When servicing with the machine operating, be careful not to squeeze you hands by the chain, the belt, the gear, and other driving sections.

- 6) Do not leave the machine with the cabinet disassembled. Do not allow any person other than a serviceman to touch inside the machine. It may cause an electric shock, a burn, or an injury.
- 7) When servicing, do not breathe toner, developer, and ink excessively. Do not get them in the eyes.
 If toner, developer, or ink onters you eyes, wach it every with water.

If toner, developer, or ink enters you eyes, wash it away with water immediately, and consult a doctor if necessary.

- The machine has got sharp edges inside. Be careful not to damage fingers when servicing.
- Do not throw toner or a toner cartridge in a fire. Otherwise, toner may pop and burn you.
- 10) When replacing the lithium battery of the PWB, use a specified one only.

If a battery of different specification is used, it may be broken, causing breakdown or malfunction of the machine.

 When carrying a unit with PWB or electronic parts installed to it, be sure to put it in an anti-static-electricity bag.
 It may cause a breakdown or malfunctions.

3. Note for installing site

Do not install the machine at the following sites.

 Place of high temperature, high humidity, low temperature, low humidity, place under an extreme change in temperature and humidity.

Paper may get damp and form dews inside the machine, causing paper jam or copy dirt.

For operating and storing conditions, refer to the specifications described later.

2) Place of much vibrations

It may cause a breakdown.

3) Poorly ventilated place

An electro-static type copier will produce ozone inside it.

The quantity of ozone produced is designed to a low level so as not to affect human bodies. However, continuous use of such a machine may produce a smell of ozone. Install the machine in a well ventilated place, and ventilate occasionally.

Place of direct sunlight.
 Plastic parts and ink may be deformed, discolored, or may undergo

qualitative change.

It may cause a breakdown or copy dirt.

5) Place which is full of organic gases such as ammonium

The organic photoconductor (OPC) drum used in the machine may undergo qualitative change due to organic gases such as ammonium.

Installation of this machine near a diazo-type copier may result in dirt copy.

6) Place of much dust

When dusts enter the machine, it may cause a breakdown or copy dirt.

7) Place near a wall

Some machine require intake and exhaust of air.

If intake and exhaust of air are not properly performed, copy dirt or a breakdown may be resulted.

8) Unstable or slant surface

If the machine drops or fall down, it may cause an injury or a breakdown.

If there are optional paper desk and the copier desk specified, it is recommendable to use them.

When using the optional desk, be sure to fix the adjuster and lock the casters.

[2] CONFIGURATION

1. Product Line and options

A. Line of machines

Model name	Composition	Model name	Composition
AR-M277/M237 (For SEC/SECL)	Copier/Printer (SPLC) model	AR-M276/M236	Copier/Printer (SPLC) model

B. Line of options

			e p
AR-RP7	AR-VR6	AR-D21	AR-D22
Reversing single pass feeder	Platen cover (OC)	500-sheet paper feed unit	2X500-sheet paper feed unit
AR-TR3 Job separator tray kit	AR-FN5N Finisher	AR-FX7 Facsimile expansion kit	AR-MM9 8MB FAX memory
	\bigcirc		
AR-P17 Printer expansion kit	AR-PK1/N PS3 expansion kit	AR-PF1 Bar code font kit	AR-PF2 Flash ROM kit
AR-NC5J Print server card	AR-NS2 Network scanner expansion kit	AR-SM5 256MB expansion memory board AR-SM6 512MB expansion memory board	

C. Combination of options list

- O: Installable
- X: Not available

Option			Main unit Model		Note
Section	Item	Model	AR-M237/M277	AR-M236/M276	Note
Automatic document	Reversing single pass feeder	AR-RP7	Standard	О	
feeder and OC	Platen cover (OC)	AR-VR6	×	О	
Paper feed system	500-sheet paper feed unit	AR-D21	О	О	500 x 1 (80g/m ²)
	2X500-sheet paper feed unit	AR-D22	О	О	500 x 2 (80g/m ²)
Paper exit system	Job separator tray kit	AR-TR3	О	О	
	Finisher	AR-FN5N	О	О	
	Staple cartridge	AR-SC1	О	О	For AR-FN5N
FAX system	Facsimile expansion kit	AR-FX7	0	0	FAX board option available only for SEC/SECL/SEEG/SUK/SCA/SEIS/ SEES/SEB/SEN/SEF/SRS/STCL/ SRSSC/Philippines/SRH/SBI/SMEF/ South Africa/Taiwan/SOCC
	8MB FAX memory	AR-MM9	О	О	
	PC-FAX (only sending)	_	О	О	
Printer system	Printer expansion kit	AR-P17	О	О	
	Print server card	AR-NC5J	О	О	The AR-P17 must be installed.
	Bar code font kit	AR-PF1	О	О	
	Flash ROM kit	AR-PF2	О	О	
	PS3 expansion kit	AR-PK1/N	О	О	
Memory board (From July 2003	256MB expansion memory board	AR-SM5	О	0	
onward)	512MB expansion memory board	AR-SM6	О	0	
Software	Network scanner expansion kit	AR-NS2	О	О	The memory of 128MB must be added.

For details of the options, refer to the Service Manual of each option.

[3] SPECIFICATIONS

This model is designed as an SPLC printer, and can be extended for use as a PCL6/PS3/NC/scanner by options. For details, refer to the Service Manual of the AR-P11/AR-PK1/AR-NC5J/AR-NS2.

1. Basic specifications

(1) Type

Machine Type	Desktop type
(2) External dimension	S

. /	
Floor to OC top surface	623 (W) x 609.5 (D) x 673 (H)mm
	(24.5 (W) x 24 (D) x 26.5 (H) inch)
Floor to Glass surface	623 (W) x 609.5 (D) x 640.5 (H)mm
	(24.5 (W) x 24 (D) x 25.2 (H) inch)
Floor to RSPF surface	623 (W) x 609.5 (D) x 785.5 (H)mm
	(24.5 (W) x 24 (D) x 30.9 (H) inch)

(3) Weight

41.8 kg (including DV), 39.8 kg (excluding DV)
(92 lbs. (including DV), 87.7 lbs. (excluding DV))
49.3 kg (including DV), 47.3 kg (excluding DV)
(108.6 lbs. (including DV), 104.2 lbs. (excluding DV))

(4) Power supply

Voltage	100V/110V/120V/127V/230V (common with 200V)/ 240V
Frequency	50/60Hz common
Power switch	One power source

2. Operation specifications

A. Common operation

(1) Warm up time

Warm-up time	Under 23 sec.
Pre-heat function	Yes

(2) Jam recovery time

About 10sec (Leaving the machine for 60 sec after opening the door, standard condition, polygon stop.)

B. Copy mode

(1) Document size

Max. document size A3 paper (11" × 17")

(2) Picture quality mode

Picture quality mode	Density adjustment step	Toner save mode
Text Auto mode	1 step	Selectable
Text mode	5 steps	Selectable
Text/Photo mode	5 steps	Selectable
Photo mode	5 steps	—
Super Photo mode	5 steps	—

(3) Copy magnification ratio

Normal mode

Copy magnification ratio	Magnification range/fixed magnification
Zoom width	25 to 400% (50 to 200% for RSPF)
Fixed magnification mode	AB Series: 25, 50, 70, 81, 86, 100, 115, 122, 141, 200, 400% 5R+5E (50, 70, 81, 86, 100, 115, 122, 141 and 200% for RSPF) Inch Series: 25, 50, 64, 77, 100, 121, 129, 200, 400% 4R+4E (50, 64, 77, 100, 121, 129 and 200% for RSPF)
Independent magnification width	25 to 400% for horizontal/vertical (50 to 200% for RSPF)

• 1200 dpi mode

Copy magnification ratio	Magnification range/fixed magnification
Zoom width	50 to 200% (50 to 141% for RSPF)
Fixed magnification mode	AB Series: 50, 70, 81, 86, 100, 115, 122, 141, 200% 4R+4E
	(50, 70, 81, 86, 100, 115, 122 and 141% for RSPF)
	Inch Series: 50, 64, 77, 100, 121, 129,
	200%
	3R+3E
	(50, 64, 77, 100, 121 and 129% for RSPF)
Independent	50 to 200% for horizontal/vertical (50 to 141%
magnification width	for RSPF)
Magnification	Normal copy: 100%±1.0%
precision	Enlargement copy: Set magnification $\pm 1.0\%$
precision	Reduction copy: Set magnification $\pm 1.0\%$

(4) Job speed

a. First Copy Time

Normal Less than 4.8 sec. (when the single copy)

* When paper of A4/Letter is fed from the upper cassette of the machine and discharged.

b. Copy speed

Mode		AR-M276/M277	AR-M236/M237
1 scan multi	(600 dpi)	27 cpm	23 cpm
сору	(1200 dpi)	13.5 cpm	13.5 cpm

* When A4/Letter

b. Multi copy speed (sheets/minute)

Document Size	AR-M27	AR-M276/M277		36/M237	
Document Size	600 dpi	1200 dpi	600 dpi	1200 dpi	
A3	15	7.5	12	7.5	
B4	17	8.5	14	8.5	
A4 (Horizontal feed)	27	13.5	23	13.5	
A4 (Vertical feed)	18	9	16	9	
B5 (Horizontal feed)	27	13.5	23	13.5	
B5 (Vertical feed)	21	10.5	18	10.5	
11" × 17"	14	7.5	12	7.5	
8-1/2" × 14"	16	8	13	8	
8-1/2" × 13"	17	8.5	14	8.5	
8-1/2" × 11"	27	13.5	23	13.5	
(Horizontal feed)					
8-1/2" × 11" (Vertical	18	9	16	9	
feed)					
A5/INV	27	13.5	23	13.5	

* The slowest speed is listed in enlargement/reduction copy.



(5) Max. multi-copy (print) quantity

999 sheets

(6) Picture quality

a. Image process

Picture quality mode	Image process (Software)
Text Auto mode	2 gradations
Text mode	Area separation
Text/Photo mode	Error diffusion
Photo mode	
Super Photo mode	Dither

b. Toner save mode

Γ	Toner save percentage	10%
---	-----------------------	-----

c. Zoom method

Main scanning direction	Performed through image processing
Sub scanning direction	Performed by image processing and changing scanning speed

d. Resolution

Read

Main scanning direction	Sub scanning direction
400 dpi	400 dpi
• Write	

Write

Main scanning direction		Sub scanning direction			
Basic		Virtual	Basic		Virtual
resolution	re	solution	resolutio	on	resolution
600 dpi	1	200 dpi	600 dp)i	1200 dpi
Copy magnifica	tion	Posi		ition	
ratio		Cer	nter	Corners	
25% to 49%		-	_		—
50% to 69%		3.2 lin	ie/mm		2.8 line/mm
70% to 94%		3.6 lin	ie/mm		3.2 line/mm
95% to 105%		5.0 line/mm			4.5 line/mm
106% to 141%		5.0 line/mm 4.5		4.5 line/mm	
142% to 400%		5.0 line/mm 4.5 line		4.5 line/mm	

e. Gradation

Read	256 gradations
Write	2 gradations

3. Engine specifications

A. Operation and display section

Display unit	Touch panel
Operation system	Button switch system

B. Paper feed, transport, paper exit section

(1) Paper feed ability

Paper feed section	2 cassettes + multi manual feed
Paper feed capacity	500 x 2 + 100 (80 g/m²)
Paper feed size	AB Series: A3 to A6R Inch Series: 11"×17" to 8.5"×5.5"
Remaining detection	Cassette section: empty detection only available Manual paper feed section: empty detection only available

· Details of paper feed section

Paper feed	500 (80 g/m²)
capacity	
Paper weight	56 to 105 g/m ² (15 to 28 lbs)
Paper feed size	A3/B4/A4/A4R/B5/B5R/A5/16K/16KR/8K
	8.5×11/8.5×14/11×17/8.5×13/8.5×11R/8.5×5.5
Paper kind	Standard paper (56 to 80 g/m ²), normal paper
	(80 to 105 g/m ²), special paper
Special paper	Recycle paper
Paper size	User operation (Touch panel operation)
selection	
Cassette	Yes
attachment/	
detachment	
Remarks	A5, 8.5 x 5.5 (only for tray 1)
	B5 is not applicable to tray 2.

· Manual feed section

Paper weight	52 to 200 g/m ² (14 to 54 lbs)
Paper Size	AB Series: A3 to A6R
	Inch Series: 11"×17" to 8.5"×5.5"
Paper kind	Multi feed: Standard paper (52 to 80 g/m ²), special paper (Recycle paper/OHP/label paper/postcard/ envelope), thick paper (max. 200 g/m ²) Single feed: Standard paper (52 to 128 g/m ²), special paper (Recycle paper/OHP/label paper/ postcard/envelope), thick paper (max. 200 g/m ²)
Size detection	Yes
Guide display	A3/A4,11,B4/B5,8.5,A4R/A5,B5R,A5R,5.5

* When poor image quality is resulted by the use of OHP sheet, adjust with SIM 44-34.

(2) Finishing ability

Paper exit section		Paper exit tray (1 tray)	
Paper exit face		Face down	
Capacity		500 sheets (A3, B4, 11 x 17, 8.5 x 14,	
		8.5 x 13: 300 sheets)	
Full detection		No	
Paper detection		Yes	
Finishing		Yes	
E-sort capacity	600 dpi	90 sheets (Max. 2970 sheets) of A4	
		standard documents (Sharp A4	
		standard document Test Chart B	
		(6%))	
	1200 dpi	16 sheets (Max. 528 sheets) of A4	
		standard documents (Sharp A4	
		standard document Test Chart B	
		(6%))	
Offset function		Depending on the shifter.	
Stapling		Available when the finisher is	
		installed.	

(3) Job separator exit tray (AR-TR3)

a. Condition

In case of Optional function (printer, FAX) is set up as MFD.

b. Simultaneous wrapping in kit

Job separator tray

Setting manual book

c. Simultaneous wrapping

Setting manual book

d. Function

This exit tray is set up above main exit tray, and can separate copier exit, printer exit and FAX exit.

e. Many of tray

1 (this tray can not set up more than 2)

f. Separator system

by control of main machine

by control of main machine		
g. Exit paper size		
Upper exit tray (Job separator	AB system	A3 to A6
tray)	Inch syster	m 11 x 17 to 8.5 x 5.5
Lower exit tray (Main machine	AB system	
exit tray)	Inch syster	m 11 x 17 to 8.5 x 5.5
h. Exit paper weight		
52 to 128g/m ² (14 to 34.1lbs)		
i. Paper pass		
center (same as main unit)		
j. Exit area/finishing		
Upper exit tray (Job separator tra	ay)	Face down
Lower exit tray (main machine ex	xit tray)	Face down
k. Power supply		
Power supply	DC 24V (fro	om main machine)
Power consumption	5.6W	
I. Method of movement		
with original motor (not with mai	n machine)	
m. Machine weight		
0.6 kg		
n. Exit capacity		
Upper exit tray (Job separator)	10	0 sheets
Lower exit tray (main machine e	xit tray) 50	0 sheets (*)
* 300 sheets except for A4/LT		
o. Tray full detector		
Upper exit tray (Job separator)	Ye	S
Lower exit tray (main machine e	exit tray) Ye	S
p. Concept of function		
Upper exit tray (Job separator)	Copy/FAX/Printer (This setting can be done by users.)	
Lower exit tray (main machine exit tray)	Copy/Printer/FAX (This setting can be done by users.)	
q. Main color of cabinet		
Frosty white		
r. Setting		
to be easy setting		
C. Optical (Image scanni	na) sectio	n
(1) Type		
Flat-bed type/monochrome		
(2) Document reference pos	sition	
Rear left reference		
(3) Resolution		
Main scanning direction Sub scanning direction		
400 dpi 400 dpi		
(4) Gradation		
256 gradations (8-bit)		
(5) Original size/Scanning a	irea	

a. Max. original size

A3 paper (11" × 17")

(6) Scanning speed

122mm/sec (600 dpi: magnification ratio 100%) 61mm/sec (1200 dpi: magnification ratio 100%)

(7) Light source (lamp)

Туре	Xenon
Drive voltage	1.5 kV

(8) Read sensor

Туре	Reduction optical system image sensor (CCD)
	Monochrome

D. Scanner (exposure) section

(1) Resolution

Main scanning direction	Sub scanning direction
600 dpi	600 dpi

(2) Gradation

2 gradations

(3) Laser unit specifications

r.p.m.	28,800 rpm
Mirror surfaces	6 faces
Laser power	0.4mW/600dpi, 0.2mW/1200dpi
Laser beam size	60μ (Main scan) x 70μ (Sub scan)
Laser wave length	785nm

E. Image process section

Imaging speed		600 dpi : 122 mm/sec. 1200 dpi : 61 mm/sec.
Photo Type		OPC drum (dia. 30mm)
conductor	LIFE	75,000 sheets
Toner	Туре	Developer (Black)
	LIFE	25,000 sheets (Toner, life: 25k, Developer life: 75k)
Charge	System	(-) DC scorotron (saw tooth)
	Voltage	560µA constant electric current
Transfer	System	Transfer roller
	Voltage	18μA (electric current)
Exposure		Xenon lamp
Developing		Dry, 2-component magnetic brush
		development
Separation		(-) DC scorotron
Discharge		_
Cleaning		Blade

F. Fusing

	Heat roller
Туре	Halogen lamp
Voltage	100V
Power consumption	1000W
emperature	185° (600 dpi)
	160° (1200 dpi)
ler	Teflon coated roller
e roller	Silicone rubber roller with re-engerized cube
ion system	Natural separation (with pawl)
•	Voltage Power consumption emperature ler e roller

G. Drive

Drive section	Motor
Main motor	DC brushless motor

4. Additional functions, copy functions, and expanded functions

•		Built-in clock	
APS	Yes (No for APS by flow scan with the RSPF)	Paper exit tray selection	
AMS	Yes (No for AMS by flow scan with the RSPF)		
Stream feeding mode	Yes		
Job build function	Yes (Copy/Scan)		
Auto tray switching	Yes (No for manual paper feed)		
Memory copy (600 dpi)	Yes (1 page memory provided as standard)		
Memory copy (1200 dpi)	Yes (1 page memory provided as standard)	1 page memory	
Rotation copy	Yes		
E-sort	Yes	5. Safety and	
XY zoom	Yes	standards	
	When the OC is used: Landscape/Portrait 25 – 400% (50 – 200% for 1200 dpi)	(1) Safety and env	
	When the RSPF is used: Landscape/Portrait	Item	
	50 – 200% (50 – 141% for 1200 dpi)	Environment	
1 set 2 copy	Yes (No for enlargement)	acknowledgment	
Binding margin	Yes Default AB sories: 0 20 mm (Lipit of 1 mm)		
	Default AB series: 0 – 20 mm (Unit of 1 mm) Inch series: 0 – 1 inch (Unit of 1/8 inch)		
Edge erase	Yes	Safety	
	Default AB series: 0 – 20 mm (Unit of 1 mm)	acknowledgement	
	Inch series: 0 – 1 inch (Unit of 1/8 inch)	& EMI	
Center frame erase	Yes		
	Default AB series: 0 – 20 mm (Unit of 1 mm) Inch series: 0 – 1 inch (Unit of 1/8 inch)		
Booklet copy	Yes (Printing only)		
White/black reversion	Yes		
	Whole surface only (Can be inhibited with		
	the simulation.)		
2 in 1/4 in 1	Yes		
Sorter	Yes Offset function (shifter or finisher) required	(2) Ozone level Ozone	
Mix paper feed	Yes (Only when this function is set)	Dust	
Preheating	Yes (Conditions are set with the key operator program.)	(3) Noise level	
Auto power shut off	Yes (Conditions are set with the key	Operating	
function	operator program.)	On standby	
Message display	Yes		
Key operator program	Yes		
Printer status	Yes (A PCL printer board is required (TCP/		
monitor/Printer administration utility	IP only). To use another protocol, an NIC card is required.)		
Wireless LAN support	Yes (A 3rd party part is recommended.)		
Coin vendor support	Yes (Option only for the models for dealers)		
Auditor support	Yes		
Duplex	Yes (Standard)		
Total counter	Yes		
Toner save	Yes		
Department	Yes (100 departments)		
Job registration/call	Yes (10 jobs)		
Cover paper	Yes (Insertion and stapling must be allowed		
	from manual feed.)		
OHP insert paper	Vac (Only printer function)	E-MANUAL.NET	

Self print function	Yes (The service simulations in the machine and the key operation list are printed.)
Built-in clock	Yes
Paper exit tray selection	(When the finisher is installed) Machine: Copy/FAX/*Printer Top tray: Copy/*FAX Offset tray: Printer/*Copy
	(When the job separator is installed) Machine: *Copy/Printer/FAX Job separator tray: Copy/*Printer/*FAX
	* Default: (The above setup items for each paper exit tray can be changed by the user.)
1 page memory	48MB

5. Safety and environmental protection standards

(1) Safety and environmental protection standards

Item	
Environment acknowledgment	USA: EnergyStar Canada: ECP, EnergyStar Germany: Blue angel conformity Europe: EnergyStar North Europe: Nordic swan
Safety acknowledgement & EMI	USA: UL/FDA/FCC Canada: cUL/FDA/FCC Europe: CE/SEMKO/ITSGS UK: CE/SEMKO/ITSGS Australia: IEC60950 conformity/C-TICK Taiwan: Taiwan EMI (Class B)/CNS conformity Russia: GOST-R Middle East, Africa: CE conformity/IEC60950 conformity/CISPR22 conformity China: CCC Others: ICube/NOM (Mexico)/FCC conformity/ CISPR22 conformity/IS112/IS961-6.1/2

(2) Ozone level

Ozone	Less than 0.02mg/m ³
Dust	Less than 0.075mg/m ³

(3) Noise level

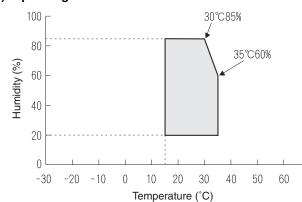
Operating	Less than 63dB
On standby	Less than 40dB

6. Environment conditions

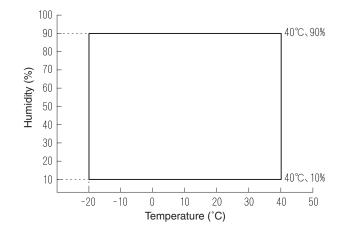
(1) Space required

Folded multi manual feed	628 (W) × 585.5 (D) mm
Open multi manual feed	894 (W) × 585.5 (D) mm

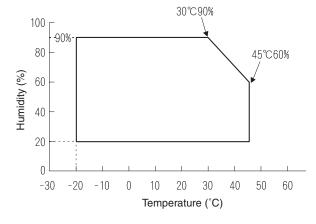
(2) Operating ambient conditions



(3) Ambient storage conditions



(4) Ambient conditions for transporting



(5) Atmospheric pressure

595 mmHg or above		
(6) Standard temperature and humidity		
Temperature	20 to 25°C	
Humidity	65±5%RH	

7. IMC board functions

* • • • • • •			
* Sort function (Electronic sort)		32MB (Copy: 16MB, Print: 16MB) 90 sheets (max. 1500 sheets) with A4 standard documents at 600dpi, 22 sheets (max. 726 sheets) with A4 standard documents at 1200dpi. Offset paper exit by the shifter function	
* Group function		32MB (Copy: 16MB, Print: 16MB) 90 sheets (max. 1500 sheets) with A4 standard documents at 600dpi, 22 sheets (max. 726 sheets) with A4 standard documents at 1200dpi. Offset paper exit by the shifter function	
Rotation copy		If there is paper of the same size as the document size, the image is rotated and printed even though the paper is set in a different direction. (In some cases, enlargement rotation may not be executed.)	
2 in 1/4 in 1		Two pages or four pages of documents are copied on one page of paper. Division can be made with slid lines or dotted lines (by user setup). (The solid line width is 8 lines)	
Edge erase		Images on the edges of the document are erased and copy is made. (Adjustable in the range of $0 - 20mm (0 - 1 inch)$.)	
Center erase		The center image of the set document is erased and copy is made. (Adjustable in the range of $0 - 20$ mm ($0 - 1$ inch).)	
Binding edge		Binding edge is provided on the left, right or the top of the set document.	
Compression memory for electronic sort		32MB	
* Memory read capacity	600dpi	32MB (Copy: 16MB, Print: 16MB) 90 sheets (Max. 1500 sheets) of A4 standard documents (Sharp A4 standard document Test Chart B (6%))	
	1200dpi	22 sheets (Max. 726 sheets) of A4 standard documents (Sharp A4 standard document Test Chart B (6%))	
Memory expansion		2 slots for DIMM memory, Max. 512MB x 2 slots + 32MB (Expandable up to 1056MB)	

Note: The number of sheets for the columns marked with "*" is calculated supposing that the same quantity is assigned to the ROPM memory and the copy expansion memory.

8. "Sharp Printer Language with Compression (SPLC)" Printer function

A. Basic specification

Item	Detail	
Print Speed	15ppm: 600dpi (including transfer from PC)	
	27ppm: ROPM (AR-M277/M276)	
	23ppm: ROPM (AR-M237/M236)	
Resolution	600dpi	
Smoothing	1200dpi x 600dpi	
Toner Save Mode	Standard	
Input tray	Multi Bypass tray	
	Tray 1, Tray 2, Tray 3, Tray 4	
	(Depending on conditions of the machine	
	and option installation.)	
Duplex print	Standard	
Finisher	Option	
Printer driver	Standard	
Manual (Online	Standard	
manual)		
Platform	IBM PC/AT (Include compatible machine)	

Item	Detail
Support OS (Printer	Windows 95/98/Me
Driver)	Windows NT 4.0 Workstation (SP5 or later)
	Windows 2000 Professional
	Windows XP Home/Professional Edition

B. Printer driver specification

(1) System

Machine	OS	
IBM PC/AT	Windows 95/98/Me	
(Include	Windows NT 4.0 Workstation (SP5 or later)	
compatible machine)	Windows 2000 Professional	
	Windows XP Home/Professional Edition	

(2) Printing function specification

	Function	Content
General	Copies	1-999
	Orientation	Portrait
		Landscape
	Collate	Collate
		Uncollate
	Document Style	1-Sided, 2-Sided (Book),
		2-Sided (Tablet)
	N-up printing	2/4
	N-up Order	7
	N-up Border	Yes/No
		Yes
Describer	User Setting	
Paper Input	Paper Size	A3 / B4 / A4 / B5 / A5 / B6 /
		A6 / Ledger (11x17) /
		Legal (8.5 x 14) /
		Foolscap (8.5 x 13) /
		Letter (8.5 x 11) /
		Invoice (5.5 x 8.5) / Folio /
		Executive / COM-10 /
		DL / C5 / 8K / 16K
	Custom Paper Size	1 size
	Source Selection	Auto
		 Bypass (Auto)
		 Bypass (Manual)
		• Tray 1/2/3/4
	Paper Type	Tray: Normal paper, letter
	i uper rype	head paper, recycle paper,
		colored paper
		Bypass: Normal paper, letter
		head paper, recycle paper,
		colored paper, thick paper,
		thin paper, label paper, OHP,
		postcard, envelope
	Transparency print	Yes / No
Paper Output	Output Tray Selection	Center Tray
		Upper Tray
	-	Finisher Offset tray
	Staple	Yes / No
Graphic	Print Quality	Normal
		Draft
		Photo
	Smoothing	Yes / No
	Toner save	Yes / No
	Photo Enhancement	Yes / No
	Fit to Page	Yes / No
	2 Gradation print	Yes / No
	Image Adjustment	Brightness : 0 to 100
		Contrast : 0 to 100
L	I.	

	Function	Content
Watermark	Watermark	(None) / TOP SECRET / CONFIDENTIAL / DRAFT /
		ORIGINAL / COPY
	User setting	Add / Update / Delete
	Position	Center
		X: ±50
		Y : ±50
	Size	6 to 300
	Angle	±90
	Gray Scale	0 to 255
	Edit Font	Yes
	On first page only	Yes / No
Configuration	Input Trays	Two / Three / Four trays
Setting	Output Tray Options	None / Upper Tray / Staple Finisher
	Set Tray Status	Yes
	Version Information	Yes
Others	ROPM	Yes / No

(3) Print quality

Mode	Control	Content
Resolution/Print	600dpi	Print quality is selected from
quality	(Fixed)	Normal*/Draft/Photo.
Smoothing	On*	Smoothing function is ON.
	Off	Smoothing function is OFF.
Toner Save Mode	On	Toner save function is ON.
	Off*	Toner save function is OFF.
Photo Enhancement	On	Photo enhancement function is ON.
	Off*	Photo enhancement function is OFF.
2 Gradation print	On	2-Gradation print function is ON.
	Off*	2-Gradation print function is OFF.

* Default

(5) Paper handling specifications

a. Paper feed direction

Limitations on tray/functions for support paper

			Pa	oer feed ti	ay		F	Paper exit t	ray	Fur	oction
Paper name	Paper size	Manual tray	Tray 1	Tray 2	Tray 3	Tray 4	Center tray	Upper tray	Offset tray	Staple	Fit page
A3	297 x 420 mm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
A4	210 x 297 mm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
A5	148 x 210 mm	Yes	Yes	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
A6	105 x 148 mm	Yes	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A	Yes
B4	257 x 364 mm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
B5	182 x 257 mm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
B6	128 x 182 mm	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Ledger	11 x 17 inch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Letter	8.5 x 11 inch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Legal	8.5 x 14 inch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Executive	7.25 x 10.5 inch	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Folio	8.3 x 13 inch	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Invoice	5.5 x 8.5 inch	Yes	Yes	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Foolscap	8.5 x 13 inch	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8K	270 x 390 mm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes
16K	195 x 270 mm	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	Yes
DL	110 x 220 mm	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
C5	162 x 229 mm	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Com10	4.125 x 9.5 inch	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A	N/A	Yes
Custom	W: 100 to 297 mm L: 148 to 431.8 mm	Yes	N/A	N/A	N/A	N/A	Yes	N/A	N/A	N/A	N/A

Setting direction toward paper feed port = Long side

Transfer direction



feed port = Short side Transfer direction

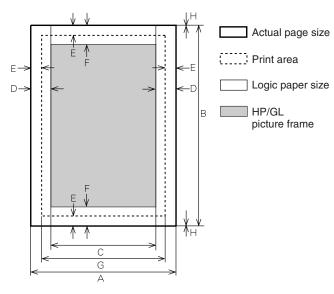
Setting direction toward paper

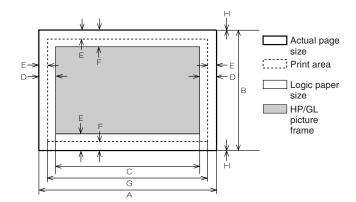


Paper А В С D Е F G н Size A3 Β4 A4 B5 A5 Ledger Legal Letter Invoice Foolscap Folio Executive COM-10 C5 DL



(6) Print enable area





Paper Size	А	В	С	D	Е	F	G	н
A3	9920	7014	9684	118	100	300	9720	0
B4	8597	6070	8361	118	100	300	8397	0
A4	7014	4960	6778	118	100	300	6814	0
B5	6070	4298	5830	118	100	300	5870	0
A5	4960	3508	4720	118	100	300	4760	0
Ledger	8400	5100	8160	120	100	300	8200	0
Legal	8400	5100	8160	120	100	300	8200	0
Letter	6600	5100	6360	120	100	300	6400	0
Invoice	5100	3300	2860	120	100	300	4900	0
Foolscap	7800	5100	7560	120	100	300	7600	0
Folio	7800	4980	7560	120	100	300	7600	0
Executive	6300	4350	6060	120	100	300	6100	0
COM-10	5700	2474	3460	120	100	300	5500	0
C5	5408	3826	5172	118	100	300	5208	0
DL	5196	2598	4960	118	100	300	4996	0

* Top margin

The set value is received from the digital copier, and data are made according to the set value.

* Left margin

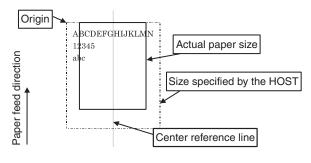
Since the paper size sensor is not set, the digital copier cannot recognize the size and direction of paper which is actually inserted.

Therefore, the left margin is set according to the paper size specified in the print data sent from the computer, and print process is performed. If the computer does not specify the paper size, or in the case of the custom size, the left margin is set according to the default paper size.

(7) Print reference

This machine employs the center reference system.

Since the digital copier is not provided with the tray size detection feature, formatting and center distribution are performed not by the actual paper size but by the paper size specified by the computer.



C. Interface

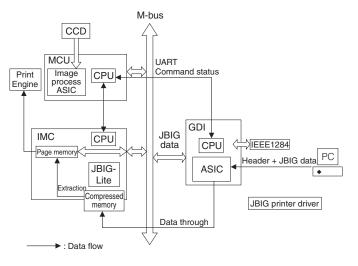
Interface	IEEE 1284 (Parallel interface)
	USB Ver. 2.0

D. System outline

The GDI-PWB is provided with IEEE1284 I/F on the host side, and the 16-bit bi-directional data bus I/F and UART on the machine side. Transfer of image data with the IMC-PWB is performed with this 16-bit bi-directional data bus. Command status information with the engine is processed with UART.

This unit is installed to the position of PCL-PWB on the conventional AR-235/275.

JBIG compression data sent from the host are transferred to the IMC PWB, where the data are extracted to be VIDEO data, and sent through the MCU PWB to the LSU.



[4] CONSUMABLE PARTS

1. List

A. SEC/LAG/SECL

No.	Item	Content		Life	Model name	Remarks
1	Toner CA (black) w/IC	Toner	×10	25K (×10)	AR-270MT	Life setting by A4 (8.5"×11") 6% document
		Vinyl bag	×10			MT=NT*10
2	Developer	Developer	×10	75K (×10)	AR-271MD	MD=ND*10
		(Developer; Net weight 500g)				
3	Drum kit	Drum	×1	75K	AR-271DR	
4	Upper heat roller kit	Upper heat roller	×1	150K	AR-272UH	
		Fusing gear	×1			
		Upper heat roller bearing	×2			
		Upper cleaning pad	×1			
		Fusing separation pawl (upper)	×4			
5	Lower heat roller kit	Lower heat roller	×1	300K	AR-272LH	
		Fusing separation pawl (lower)	×4			
		Fusing busing (lower)	×2			
6	150K maintenance kit	Drum separation unit	×2	150K	AR-272KA1	
		Transfer roller unit	×1			
		DV seal	×1			
		DV side sheet N	×1			
		DV side sheet N2	×1			
		DV side mylar	×2			
7	MC unit	MC unit	×10	75K (×10)	AR-270MC	
8	Cleaner blade	Cleaner blade	×10	75K (×10)	AR-270CB	
9	Drum frame unit	Drum frame unit	×1	225K	AR-272DU	* The life of the toner reception seat welded to the
						drum frame is 225K, and it can be used up to 3
						times. (Supplied as a drum frame unit.)
						* Drum frame unit contains all the drum unit parts
						excluding Drum and Drum fixing plate.
10	Staple cartridge	Staple cartridge	×3	3000 staples	AR-SC1	For AR-FN5N (For 30 sheets staple)
				×3 ່		
11	Transfer roller unit	Transfer roller unit	×1	150K	AR-272TX	
12	Paper feed roller kit	Paper feed roller kit	×1	100K	AR-271IR	
13	Fusing unit	Fusing unit (120V heater lamp)	×1	150K	AR-272FU	

* The other maintenance parts than the above are supplied as service parts.

B. SEEG/SUK/SCA/SCNZ/SEA/SEES/SEZ/SEIS/SEB/SEN/SEF/SMEF/Russia/Special country

No.	Item	Content		Life	Model name	Remarks
1	Toner CA (black) w/IC	Toner	×10	25K (×10)	AR-270LT	Life setting by A4 (8.5"×11") 6% document
		Vinyl bag	×10			LT=T*10
2	Developer	Developer	×10	75K (×10)	AR-271LD	LD=DV*10
		(Developer; Net weight 500g)				
3	Drum kit	Drum	×1	75K	AR-271DM	
4	Upper heat roller kit	Upper heat roller	×1	150K	AR-272UH	
		Fusing gear	×1			
		Upper heat roller bearing	×2			
		Upper cleaning pad	×1			
		Fusing separation pawl (upper)	×4			
5	Lower heat roller kit	Lower heat roller	×1	300K	AR-272LH	
		Fusing separation pawl (lower)	×4			
		Fusing busing (lower)	×2			
6	150K PM kit	Drum separation unit	×2	150K	AR-272KA	
		Transfer roller unit	×1			
		DV seal	×1			
		DV side sheet N	×1			
		DV side sheet N2	×1			
		DV side mylar	×2			
7	MC unit	MC unit	×10	75K (×10)	AR-270MC	
8	Cleaner blade	Cleaner blade	×10	75K (×10)	AR-270CB	
9	Drum frame unit	Drum frame unit	×1	225K	AR-272DU	* The life of the toner reception seat welded to the
						drum frame is 225K, and it can be used up to 3
						times. (Supplied as a drum frame unit.)
						* Drum frame unit contains all the drum unit parts
						excluding Drum and Drum fixing plate.
10	Staple cartridge	Staple cartridge	×3	3000 staples	AR-SC1	For AR-FN5N (For 30 sheets staple)
	1 0			×3 ່		
11	Transfer roller unit	Transfer roller unit	×1	150K	AR-272TX	

* The other maintenance parts than the above are supplied as service parts. MANUAL.NET

C. STCL/SRH/SRS/SRSSC/SBI/Agent

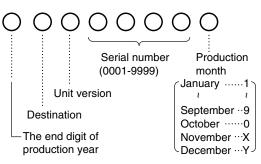
No.	Item	Content		Life	Model name	Remarks
1	Toner CA (black) w/IC	Toner Vinyl bag	×10 ×10	25K (×10)	AR-270CT	Life setting by A4 (8.5"×11") 6% document CT=ST*10
2	Developer	Developer (Developer; Net weight 500g)	×10	75K (×10)	AR-271CD	CD=SD*10
3	Drum kit	Drum	×1	75K	AR-271DR	
4	Upper heat roller kit	Upper heat roller Fusing gear Upper heat roller bearing Upper cleaning pad Fusing separation pawl (upper)	×1 ×1 ×2 ×1 ×4	150K	AR-272UH	
5	Lower heat roller kit	Lower heat roller Fusing separation pawl (lower) Fusing busing (lower)	×1 ×4 ×2	300K	AR-272LH	
6	150K PM kit	Drum separation unit Transfer roller unit DV seal DV side sheet N DV side sheet N2 DV side mylar	×2 ×1 ×1 ×1 ×1 ×1 ×2	150K	AR-272KA	
7	MC unit	MC unit	×10	75K (×10)	AR-270MC	
8	Cleaner blade	Cleaner blade	×10	75K (×10)	AR-270CB	
9	Drum frame unit	Drum frame unit	×1	225K	AR-272DU	 The life of the toner reception seat welded to the drum frame is 225K, and it can be used up to 3 times. (Supplied as a drum frame unit.) Drum frame unit contains all the drum unit parts excluding Drum and Drum fixing plate.
10	Staple cartridge	Staple cartridge	×3	3000 staples ×3	AR-SC1	For AR-FN5N (For 30 sheets staple)

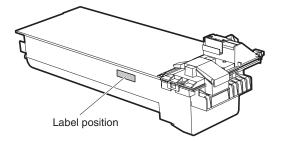
* The other maintenance parts than the above are supplied as service parts.

2. Production number identification

<TD cartridge>

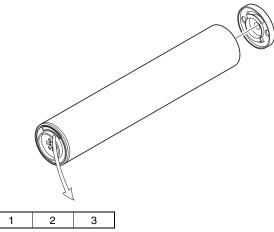
The label on the TD cartridge shows the date of production.





<Drum>

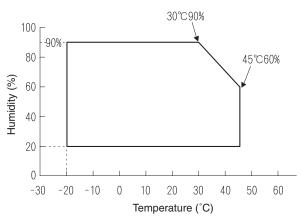
The laser print indicates the date (year, month, day) of production.



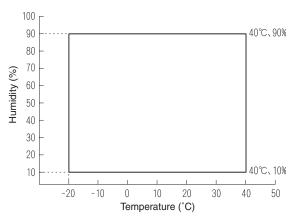
- 1 The last digit of the production year.
- 2 The production month.
- X stands for October, Y November, and Z December.
- 3 The production sub lot.

3. Environment conditions

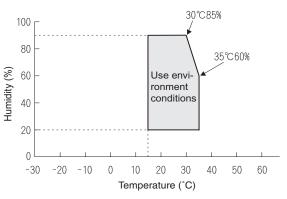
A. Ambient conditions for transporting



B. Ambient storage conditions (sealed)



C. Operating ambient conditions



4. Life (packed conditions)

Photoconductor drum (36 months from the production month) Developer, toner (24 months from the production month)

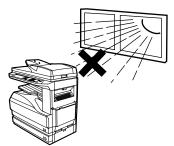
[5] UNPACKING AND INSTALLATION

1. Installation

A. Environment

The performance of this machine is affected by the environment of the installing site. Avoid installation to the following places:

• Avoid installation in direct sunlight, otherwise the plastic parts may be deformed.



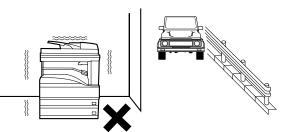
 Avoid installation in a place of high temperature, high humidity, low temperature or low humidity, otherwise paper may be dampened and frost may be generated in the machine to cause a paper jam and dirty copy.



• Avoid installation in a dusty place, otherwise dust may enter the machine to cause dirty copy or machine troubles.



• Avoid installation to a place with much vibration, otherwise the machine may cause troubles.



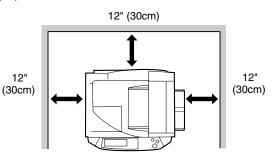
· Avoid installation to a place of poor ventilation.



• Avoid installation to a place where there is ammonium gas. Installation near a diazo-copier may lead to dirty copy.



 Be sure to have enough space around the machine.
 Be sure to allow the required space around the machine for servicing and proper ventilation.



B. Power source

- Be sure to use only the power outlet (with the earth terminal) of 15A or more and 100V.
- Install the machine near the power outlet to facilitate disconnection of the power plug.
- If the power plug of this machine and other illuminating apparatus are connected to the same power outlet, the lamp may flicker. Use an exclusive power outlet for this machine without connecting another lamp together.
- Avoid complex wiring. Be careful not to damage, break, or process the power cord.



- · Earth wire connection
 - Be sure to connect the earth wire for protection against danger. If not, a leakage may cause a fire or an electric shock.



C. Transport

• When transporting the machine, use manpower of two persons to hold the grips on the both sides of the machine with both hands.



D. Other precautions

 If the machine produces smoke or bad smell, stop the operation of the machine.



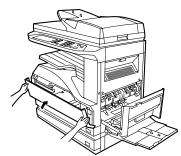
- Do not use flammable spray near the machine.
- · Do not remove the cabinet of the machine.
- Do not put a receptacle with water in it or metal pieces, which may drop inside the machine, causing a trouble.



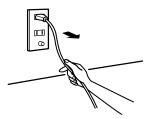
- When it thunders, turn off the power and disconnect the power plug from the power outlet to prevent against an electric shock or a fire caused by lighting damage.
- If a piece of metal or water enters the machine, turn off the power and disconnect the power plug from the power outlet.
- · Do not touch the power plug with a wet hand.



- Do not remodel the machine.
- Be careful not to pinch your fingers when closing the front cover or the side cover and setting the paper feed tray to supply paper or process a paper jam.



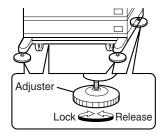
 When disconnecting the power plug from the power outlet, do not pull the cord.



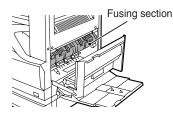
- Do not throw toner or the toner cartridge into a fire.
- Keep toner or the toner cartridge away from the children.

• When the exclusive table (option) is used, be sure to use the adjusters (4 pcs.) on the floor.

When it is required to move the machine for rearrangement of the office, etc., release the adjuster locks and move the machine.



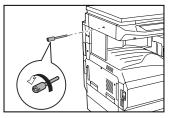
 The fusing section is heated to a high temperature. When removing a paper jam, be careful not to touch the fusing section.



- When the machine is not used for a long time, disconnect the power plug from the power outlet for safety.
- When transporting the machine, turn off the power and disconnect the power plug from the power outlet. (Remove the earth wire after disconnecting the power plug from the power outlet.)

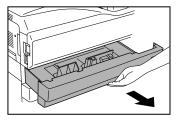
2. Removal of protective material and fixing screw

- 1) Remove all tapes, then open the document cover and remove the protective material of sheet shape.
- 2) Use a screwdriver to remove the fixing screw.
 - The fixing screw is required when transporting the machine. Keep it in the tray. (Refer to the later description.)

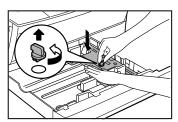


3. Removal and storage of fixing pin

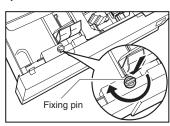
1) Lift the knob and gently pull out the tray.

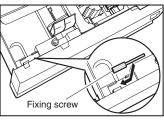


2) Hold the paper pressure plate and turn the fixing pin in the arrow direction.



 Store the removed fixing pin and the fixing screw which was removed in the above procedure, together in the specified storage place in the tray.

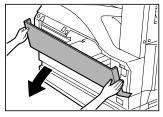




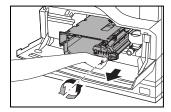
* If power is turned don without removing the fixing pin, it will be difficult to pull out the tray.

4. Developer cartridge installation

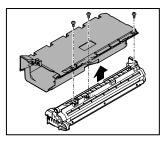
1) Hold the both sides of the front cover, and pull down to open it.



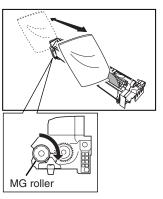
2) Loosen the blue screw and pull out the developing cartridge.



3) Remove the developer tank from the developer cartridge.



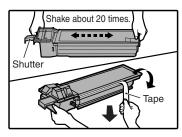
4) Rotate the MG roller in the arrow direction and supply developer evenly into the developing unit.



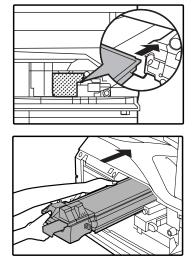
- * Shake the developer bag enough before opening it.
- * Check that the DV seal is free from developer. If developer is attached to the DV seal, clean and remove it.
- Attach the developer tank to the developer cartridge.
 After supplying developer into the developer cartridge, do not tilt or shake the developer cartridge.
- 6) Attach the developer cartridge to the copier, and fix it with the screw.
- Note: When replacing the OPC drum with a new one, be sure to clear the drum count.

5. Toner cartridge installation

1) Remove the toner cartridge from the bag, shake it about 20 times horizontally, and remove the tape.



- * When holding the toner cartridge, do not touch the shutter section, but hold the grips. Do not remove the tape before shaking the cartridge.
- Press the lock release lever, and insert the unit completely into the copier along the guide groove. Then fix the blue screw and the locking screw.

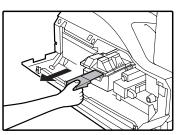


* Dirt or dust must be removed from the toner cartridge before *WWW.SERVICE-MAN*installingNET

AR-M236/M276/M237/M277 UNPACKING AND INSTALLATION 5-3

 Remove the tape from the shutter, and remove the shutter from the toner cartridge.

Dispose the removed shutter.



6. Toner density sensor level adjustment

- 1) Open the cover with the power OFF.
- 2) Power ON (The mechanism cannot be initialized because the cover is open.)
- 3) Install the developing unit with new developer in it.
- 4) Enter SIM 25-2.
- $(\# \rightarrow * \rightarrow \mathsf{C} \rightarrow * \rightarrow \mathsf{25} \rightarrow \mathsf{START} \rightarrow \mathsf{2} \rightarrow \mathsf{START})$
- 5) Close the cover immediately before starting the operation.
- 6) Press the [START] key to start.
- After completion of the adjustment, be sure to cancel the simulation.
- Note: When replacing developer with new one, be sure to clear the developer counter.

7. Tray paper size setting

When the tray paper size is changed, set the tray paper size in the following procedure.

During temporary halt due to paper empty or a paper jam or during interruption copy, the paper size setting cannot be made.

During FAX data output (when the FAX function is provided) or during printing (when the printing function is provided), the paper size setting cannot be made even in the copy mode.

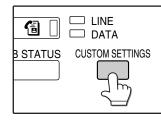
Note: A5 (5 1/2" x 8 1/2") size paper can be set only to the first tray and the manual feed tray.

B5 size paper cannot be set to the second tray. (B5R size paper can be set.)

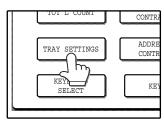
A. Trays 1 – 4

- 1) Set paper on the tray.
- 2) Press the [CUSTOM SETTINGS] key.

The custom settings menu screen will appear.

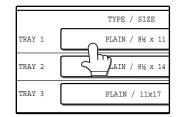


 Touch the [TRAY SETTINGS] key. The tray settings screen will appear.



4) Select the tray in which you loaded paper.

If the desired tray does not appear in the display, use the $[\uparrow]$ key or $[\downarrow]$ key to scroll until it appears.



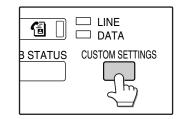
- Select the size and type of paper that is loaded in the tray. The currently selected paper type will be highlighted.
 - To change the paper type selection, touch the appropriate type key.
 - To change the paper size selection, touch the appropriate size key.
 - To change the displayed size selections to AB sizes, touch [AB \leftrightarrow INCH].

CUSTOM SETTINGS	
TRAY 1 TYPE/SIZE SETTING	OK
TYPE	SIZE AB INCH
PLAIN LETTER HEAD	11x17 8½x14 8½x13
RECYCLED COLOR	8%x11 8%x11R 5%x8%
2	

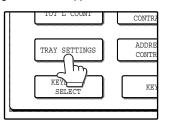
- 6) Touch the [OK] key.
- A message appears prompting you to check the paper in the tray. Check the paper and then touch the [OK] key. You will return to the tray settings screen.

B. Manual feed tray

- 1) Set paper on the tray.
- 2) Press the [CUSTOM SETTINGS] key.
 - The custom settings menu screen will appear.



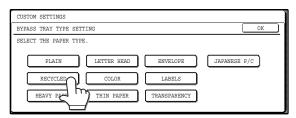
 Touch the [TRAY SETTINGS] key. The tray settings screen will appear.



4) Touch the [BYPASS TRAY] key.

	TYPE / SIZE
TRAY 4	PLAIN / 11x17
BYPASS TRAY	PLAIN
T	

5) Select the type of paper that is loaded in the tray. Touch the appropriate paper type key.



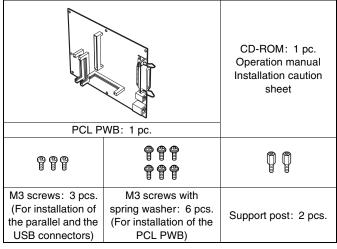
6) Touch the [OK] key.

You will return to the tray settings screen.

8. Installation of options

A. AR-P17

(1) Parts included

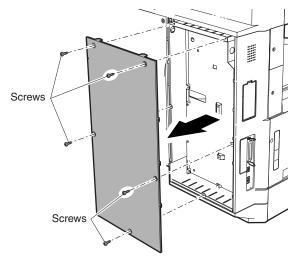


(2) Installation procedure

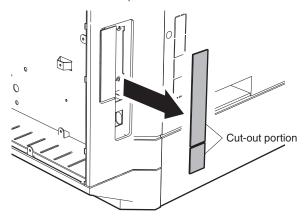
Turn off the main switch of the copier and then remove the power plug of the copier from the outlet.

1) Remove the shielding plate.

Remove five screws and remove the shielding plate.



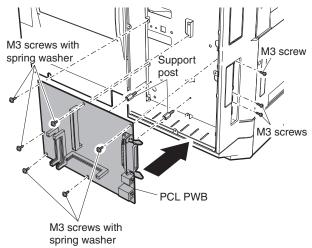
 Cut and remove the cut-out portion from the left rear cabinet. Cut and remove the cut-out portion from the left rear cabinet using a tool such as nippers. (Be careful about the direction of the tool so that the cut surface is flat.)



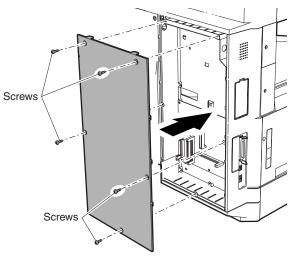
3) Attach the PCL PWB unit.

Attach the support post to the mounting plate of machine options. Then connect the PCL PWB connector to the mother board connector and fit the PCL PWB with the six screws with M3 spring washer (packed with the unit).

Then, attach the parallel and USB connector portion using the supplied three screws.



 Attach the shielding plate. Attach the shielding plate using five screws.



Insert the power plug of the copier to the outlet and turn on the main switch. Then, carry out the following procedure.

5) Check for the PCL PWB.

Press the PRINT key on the operation panel to check to see if the copier enters the print mode.

6) Check for the language.

Check for the language setting (26-22) following the procedure described in the service manual (section of simulation).

7) Check for printing.

For installation of printer drivers on a computer, see the supplied operation manual.

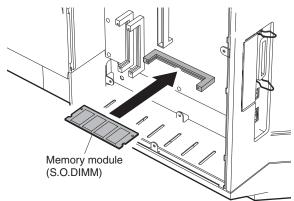
Then, connect a parallel cable to the computer and execute printing to check to see if printing can be executed properly.

(3) Mounting of additional memory

(After mounting it, Installation proceed to step 4.)

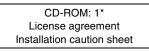
Insert the memory module until it clicks.

The memory module is lock when it is inserted. However, be sure to check that the module slit is engaged with the connector rib when it is inserted.



B. AR-PK1

(1) Parts included



*NOTE: Do not use the CD-ROM packed in AR-PK1, but use the CD-ROM packed together with the AR-P17 for setting the PS driver.

(2) Installation procedure

To enable the PS3, the product key must be acquired. (For the method of acquiring the product key, contact the SHARP authorized dealer.)

- 1) Check that AR-P17 operates normally.
 - Turn on the power and wait until warming up is complete.
 - Press the PRINT key on the operation panel of the main unit.
 - If the LCD in the operation panel of the main unit switches to the print mode normally, AR-P17 is operating normally.
 - If it is not operating normally, follow the AR-P17 Installation Manual to check and modify the system configuration settings and check the operation.
- 2) Enable the PS3.

To enable the system configuration, use the keys on the main unit to set the mode.

Enter the product key with the key operator program. (Refer to the Operation Manual of Key Operator Program.)

Setting of the product key is complete. To update the system, press the CA key to exit the setting mode.

3) Check the PS3.

Make the following sequence of selections on the control panel VICE-MANUAL.NET

- Press Special Functions , highlight Configuration and press OK.
- Use the up and down keys to highlight Test print menu and press OK.
- Use the up/down keys to highlight Configuration page and press OK.

A configuration page will be printed.

Check that the option memory capacity is 128 MB or more. Check that the PS3 has been installed.

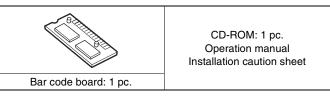
> Please keep below important information. This information will use for other products.

APPLICATION NUMBER	
MACHINE SERIAL NUMBER	
PRODUCT KEY	

C. AR-PF1/PF2

(1) Parts included

AR-PF1



AR-PF2

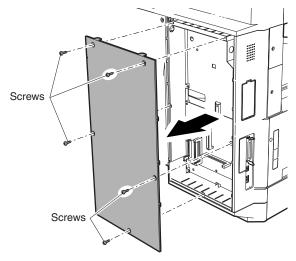


(2) Installation

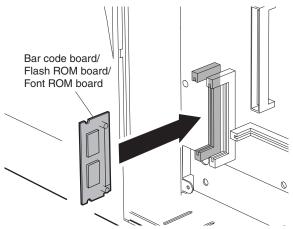
Turn off the main switch of the copier and then remove the power plug of the copier from the outlet.

1) Remove the shielding plate.

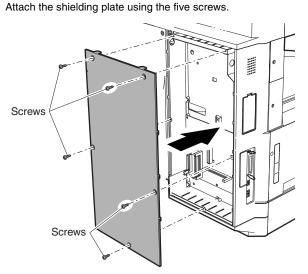
Remove five screws and remove the shielding plate.



 Attach the bar code board/flash ROM. Attach the bar code board/flash ROM board to CN7 of the printer board.



3) Attach the shielding plate.



Insert the power plug of the copier to the outlet and turn on the main switch. Then, carry out the following procedure.

4) Check the bar codes. (AR-PF1 only)

Use the operation keys on the operation panel to print the PCL font list from the test page printing.

Check that the optional font list is printed at the end.

(3) Font list

Font No.	Font name	Font No.	Font name
1	Code128TT-Regular	15	OCR-A
2	Code128-NarrowTT-Regular	16	OCR-B
3	Code128-WideTT-Regular	17	OCR-B-C39-Regular
4	Code39HalfInch-Regular	18	Upc-Half
5	Code39OneInch-Regular	19	Upc-Half-Bars
6	Code39QuarterInch-Regular	20	Upc-HalfMusic
7	Code39SmallHigh-Regular	21	Upc-HalfNarrow
8	Code39Slim-Regular	22	Upc-HalfThin
9	Code39SmallLow-Regular	23	Upc-Tall-Regular
10	Code39SmallMedium-Regular	24	Upc-TallBarsThin-regular
11	Code39Wide-Regular	25	Upc-TallMusicThin-Regular
12	Codabar-Regular	26	Upc-TallNarrow-Regular
13	Interleaved2of5-Regular	27	Upc-TallThin-regular
14	Interleaved2of5-Thin-Regular	28	ZipCodeBarcode-Regular

(4) Check when installing the AR-PF2

Check can be made by print out of the printer setting list.

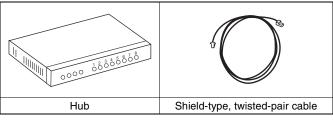
The expansion font item in the printer setting list is changed from "uninstalled" to "download font."

D. AR-NC5J

(1) Connection to a network

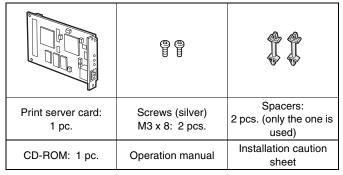
To connect the AR-NC5J to a network, the following items are required.

• For connection in the 100BASE-TX environment, a hub conforming to 100BASE-TX and a shield-type, twisted-pair cable (Category 5) are required.



- Check that the printer power is off, and connect the shield-type, twisted-pair cable to the 10/100BASE connector of the AR-NC5J.
- 2) Connect the other end of the cable to the hub.
- Turn on the printer power, and check that the printer operates normally.

(2) Parts included

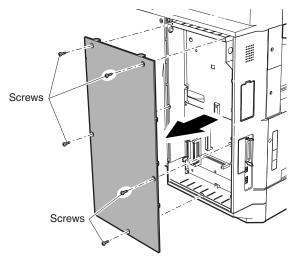


(3) Installation procedure

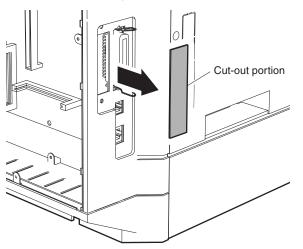
In this case, no spacer is used in the packed items of the AR-NC5J. Turn off the main switch of the copier and then remove the power plug of the copier from the outlet.

1) Remove the shielding plate.

Remove five screws and remove the shielding plate.

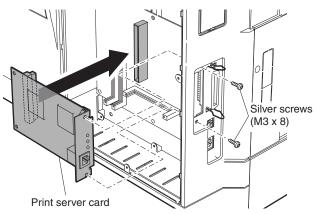


 Cut and remove the cut-out portion from the left rear cabinet. Cut and remove the cut-out portion from the left rear cabinet using a tool such as nippers. (Be careful about the direction of the tool so that the cut surface is flat.)



3) Attach the print server card.

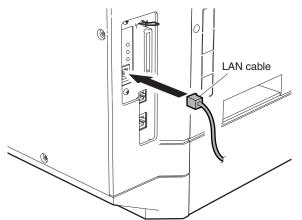
Align the connector positions, connect the print server card, and then secure the card to the option mounting plate in the main unit using supplied two silver screws (M3 \times 8).



Reattach the shielding plate.
 Reattach the shielding plate using five screws.

Screws

Connect the cable to the control PWB.
 Connect a LAN cable to the connector of the print server card.



Insert the power plug of the copier to the outlet and turn on the main switch. Then, carry out the following procedure.

6) Check for the print server card.

Use the keys on the operation panel to print a configuration page. Check that the network interface card has been installed.

7) Check for printing.

Perform setup of the environmental variables.

(For installation of printer drivers on a computer and network settings (IP address input), see the supplied operation manual.) Execute printing to check to see if printing can be executed properly.

E. AR-NS2

(1) Packed items

This network scanner kit includes the following items in the package.

- CD-ROM (Network Scanner Tool and Sharpdesk, Installer, Sharp TWAIN driver, etc.)
- Installation caution sheet and Operation Manual (License numbers of 10 user clients of Sharpdesk are specified.)

(2) Installation procedure

To use the scanner expansion kit, a S.O.DIMM memory module (128 MB or more) is needed.

If no memory is added, an S.O.DIMM module must be mounted on PCL $\ensuremath{\mathsf{PWB}}$.

For the mounting method and the memory capacity, see below.

To enable the scanner function, the product key must be acquired. (For the method of acquiring the product key, contact the SHARP authorized dealer.)

1) Check the capacity of the Printer PWB memory.

Use the keys of the copier to print the configuration page. (For details, see the operation manual.)

Check that the capacity of the optional memory is 128 MB or more.

2) Enable the network scanner feature.

To enable the system configuration, use the keys on the copier to set the mode.

Enter the product key with the key operator program. (Refer to the Operation Manual of Key Operator Program.)

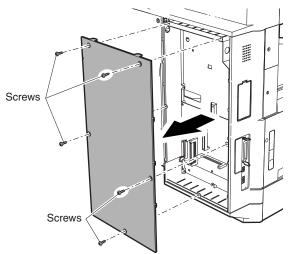
Setting of the product key is completed. Press the [EXIT] key to update the system and exit the setting mode.

(3) Mounting the additional memory

Turn off the main switch of the copier and then remove the power plug of the copier from the outlet.

1) Remove the shielding plate.

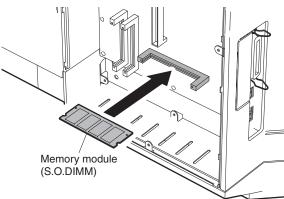
Remove the five screws and remove the shielding plate.



2) Mount the memory module.

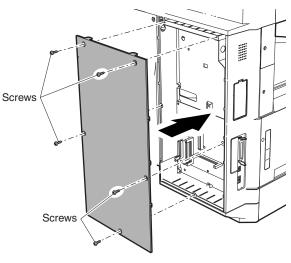
Insert the memory module until it clicks.

The memory module is lock when it is inserted. However, be sure to check that the module slit is engaged with the connector rib when it is inserted.



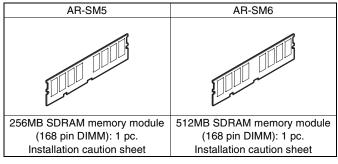
3) Reattach the shielding plate.

Reattach the shielding plate using the five screws.



F. AR-SM5/SM6

(1) Parts included

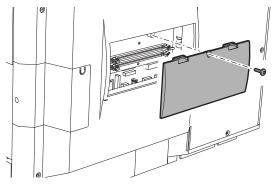


(2) Installation procedure

Turn off the main switch of the copier and then remove the power plug of the copier from the outlet.

1) Remove the shielding plate.

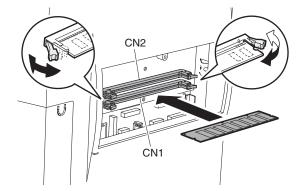
Remove the screw and remove the cabinet.



2) Attach the SDRAM memory module.

Attach the SDRAM memory module to CN1 and CN2 of the IMC board.

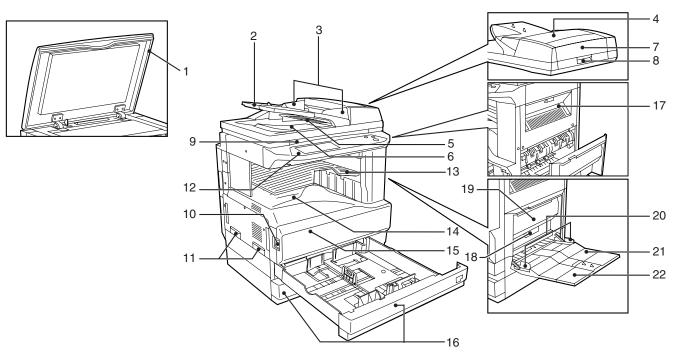
When only one SDRAM memory module is used, attach it to CN1.



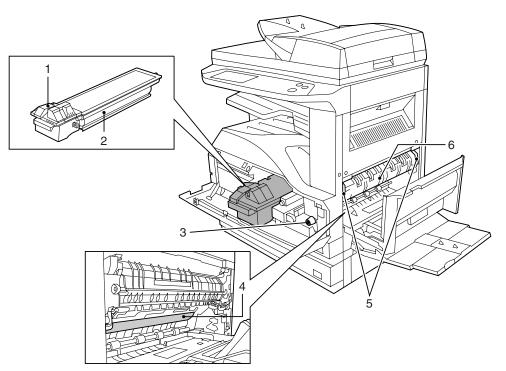
[6] EXTERNAL VIEW AND INTERNAL STRUCTURE

1. Name and function of each section

A. External view

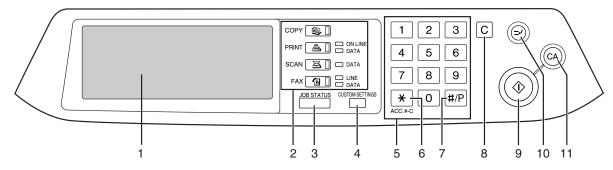


No.	Name	Function/Operation	Note
1	Platen cover (optional)	Presses a document.	Optional (AR-M236/M276)
2	Document feeder tray		
3	Original guides	Adjust to the size of the originals.	pass feeder installed. (AR-
4	Document feeder cover	Open to remove misfed originals.	M237/M277: Standard)
5	Reversing tray	Pull out to remove misfed originals.	
6	Exit area	Originals exit the machine here after copying.	
7	Document transport cover	Open to remove misfed originals.	
8	Document transport cover knob	Pull to open the document transport cover.	
9	Document glass	Place an original that you wish to scan face down here.	
10	Power switch	Press to turn the machine power on and off.	
11	Handles	Use to move the machine.	
12	Operation panel	Contains operation keys and the touch panel.	
13	Job separator tray (optional)	Print jobs and received faxes are delivered to this tray.	When the job separator tray installed.
14	Center tray	Finished copies are delivered to the center tray.	
15	Front cover	Open to remove paper misfeeds and perform machine maintenance.	
16	Paper trays	Each tray holds 500 sheets of copy paper.	
17	Upper right side cover	Open to remove misfeeds when an optional job separator tray kit or a optional finisher is installed.	
18	Side cover	Open to remove misfeeds.	
19	Side cover handle	Pull to open the side cover.	
20	Bypass tray paper guides	Adjust to the width of the paper.	
21	Bypass tray	Regular paper and special paper (such as transparency film) can be fed	
		from the bypass tray.	
22	Bypass tray extension	Pull out the bypass tray extension before placing paper in the bypass tray.	



No.	Name	Function/Operation			
1	Toner cartridge lock release lever	Jse to unlock the toner cartridge.			
2	Toner cartridge	Contains toner.			
3	Roller rotating knob	Turn to remove misfed paper.			
4	Photoconductive drum	Copy images are formed on the photoconductive drum.			
5	Fusing unit release levers	To remove a paper misfeed in the fusing unit, push up on these levers and remove the paper.			
6	Fusing unit paper guide	Dpen to remove misfed paper.			

C. Operation panel



No.	Name	Function/Operation	Note
1	Touch panel	The machine status, messages and touch keys are displayed on the panel. The display will show the status of printing, copying or network scanning according to the mode that is selected.	
2	Mode select keys and indicators	Use to change modes and the corresponding display on the touch panel.	
	[COPY] key	Press to select copy mode.	
	[PRINT] key/ONLINE indicator/ DATA indicator	 [PRINT] key: Press to select print mode. ONLINE indicator: Print jobs can be received when this indicator is lit. DATA indicator: A print job is in memory. The indicator lights steadily while the job is held in memory, and blinks while the job is printed. 	
	[SCAN] key/DATA indicator	[SCAN] key: Press to select network scan mode when the network scanner option is installed.DATA indicator: Lights steadily or blinks while a scanned image is being sent.	When the network scanner option is installed.
	[FAX] key/LINE indicator/ DATA indicator	 [FAX] key: Press to select fax mode when the fax function is installed. LINE indicator: This lights up while faxes are being sent or received. DATA indicator: Blinks when a fax has been received to memory and lights steadily when a fax is waiting in memory for transmission. 	When the fax function is installed.
3	[JOB STATUS] key	Press to display the current job status,	

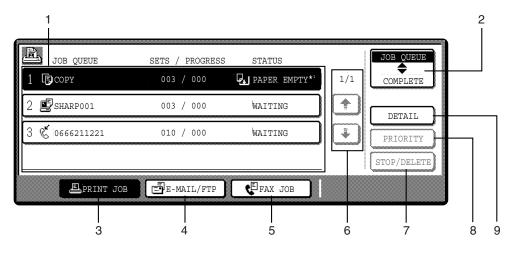
No.	Name	Function/Operation	Note
4	[CUSTOM SETTINGS] key	Use to adjust various settings of the machine including the contrast of the touch panel and key operator programs.	
5	Numeric keys	Use to enter numeric values for various settings.	
6	[ACC.#-C] key	When auditing mode is enabled, press this key after finishing a job to return the machine to account number entry standby.	
7	[#/P] key	Use this key to execute a job program in copy mode. The key is also used to dial in fax mode.	
8	[CLEAR] key	Press to clear a copy number setting or cancel a job.	
9	[START] key	Press in copy mode, scanner mode, or fax mode to begin copying, network scanning, or faxing.	
10	[INTERRUPT] key	Use to perform an interrupt copy job.	
11	[CLEAR ALL] key	Resets the settings to the initial settings.	

D. Job status screen

This screen appears when the [JOB STATUS] key on the operation panel is pressed.

A job list showing the current job and the stored jobs or a list showing completed jobs can be displayed.

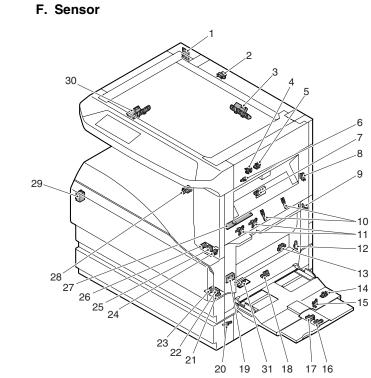
The contents of jobs can be viewed and jobs can be deleted from the queue. The following screen shows the job queue for print jobs.



No.	Name	Function/Operation	Note
1	Job list	Shows stored jobs and the job currently being executed. Touch one of keys 3 to 5 in the above illustration to select the type of job. The icon next to each job name indicates the mode of the job as follows: Copy mode Printer mode Fax mode (Send jobs) K Fax mode (Receive jobs) The jobs in the job list appear in the form of keys. To give priority to a job or pause or delete a job, touch the key of the job and then use the key described in 7 or 8.	* 1 :"PAPER EMPTY" in the job status display "PAPER EMPTY" in the job status display indicates that the machine is out of the specified size of paper. Add the specified size of paper. If the specified size of paper is not available and you are in printer mode, another size of paper can be loaded in the bypass tray to allow printing to take place.
2	Mode switching keys	Use to select the job list mode: "JOB QUEUE" (Stored/currently executing jobs) or "COMPLETE" (Finished jobs). "JOB QUEUE": Shows jobs that have been stored and the job that is currently being executed. "COMPLETE": Shows the jobs that have been finished. Note that copy jobs do not appear in this list (print job only).	
3	[PRINT JOB] key	Use to view the list of output jobs for all modes (print, copy, and fax).	
4	[E-MAIL/FTP] key	Displays a network scanner job.	When the network scanner function is installed.
5	[FAX JOB] key	This displays stored fax jobs and the fax job currently being executed.	When the fax function is installed.
6	Display switching keys	Use to change the page of the displayed job list.	
7	[STOP/DELETE] key	Use to pause or delete a job currently being executed, or to delete a stored job. Copy jobs and received faxes cannot be paused or deleted with this key. Copy jobs can be canceled by pressing the [CLEAR] key or [CLEAR ALL] key.	
8	[PRIORITY] key	Select a reserved job in the [Reserve/Execution] job list and touch this key, and the selected job will be executed by interrupting the current execution of the other job.	
9	[DETAIL] key	Shows information on the selected job. This cannot be used for a received fax and copy.	

C Ø 14 13 12

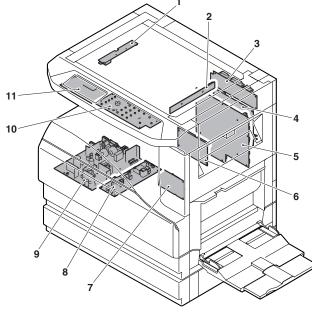
No.	Name	Code	Function and operation
1	Mirror motor	MIRM	Optical mirror base drive
2	Shifter motor	SFTM	Shifter drive
3	Paper exit gate switching solenoid	OGS	Paper exit gate switcher
4	Duplex motor	DPXM	Duplex paper switching and exit motor
5	DUP-2 motor		Reverse pass for paper transport
6	Cooling fan	VFM	Cools the inside of the unit.
7	Main motor	MM	Main drive
8	PS clutch	RRC	Main unit paper feed
9	Paper feed clutch	CPFS1	Paper feed roller drive
10	Manual paper feed solenoid	MPFS	Manual paper feed solenoid
11	Paper feed transfer clutch	TRC2	Paper feed transfer clutch
12	2nd cassette paper feed clutch	CPFS2	
13	Cassette lift-up motor	LUM1	Cassette paper lift-up
14	Cassette lift-up motor	LUM2	Cassette paper lift-up
15	2nd cassette paper feed solenoid	CPFC2	Solenoid for the paper feed from the cassette
16	Paper feed solenoid	CPFC1	Solenoid for the paper feed from the cassette
17	Toner motor	TM	Toner supply
18	Separation pawl solenoid	PSPS	Separation pawl operation solenoid
19	Exhaust fan motor	DCFM	Cools the inside of the unit.
20	Intake fan motor	DCFM2	



Function and operation	Nie	Nama	Qada	Function and
Optical mirror base	No.	Name	Code	operation
rive	1	Mirror home position	MHPS	Mirror (scanner) home
hifter drive		sensor		position detection
aper exit gate	2	Document cover	OCSW	Document cover
witcher		sensor		open/close detection
ouplex paper switching	3	Document size sensor	DSIN3	Document size
nd exit motor				detection (Inch series:
leverse pass for paper				PD3, 4) (AB series:
ansport				PD4, 5)
cools the inside of the	4	2nd paper exit sensor	POD2	2nd paper exit
nit.				detection
1ain drive	5	2nd paper exit full	TOPF	2nd paper exit section
lain unit paper feed		detection sensor		full detection
aper feed roller drive	6	Right cabinet door	DSWR0	Right cabinet door
lanual paper feed		switch		open/close detection
olenoid	7	1st paper exit sensor	POD1	1st paper exit
aper feed transfer				detection
lutch	8	Shifter home position	SFTHP	Shifter home position
		sensor		sensor detection
	9	Paper exit sensor	PPD2	Paper exit detection
assette paper lift-up		(DUP side)		
assette paper lift-up	10) Thermistor		Fusing temperature
olenoid for the paper				detection
eed from the cassette	11	Thermostat		Abnormal high
olenoid for the paper				temperature detection
eed from the cassette				in the fusing section
oner supply	12	1st cassette (paper	CD1	1st cassette (paper
Separation pawl		tray) detection		tray) empty detection
peration solenoid	13	Manual feed paper	PPD1L	Sensor of paper entry
cools the inside of the		entry sensor		from the manual
nit.				paper feed tray, the
				2nd/multi-stage desk,
	4.4	Manual nan sy fa sal		or the DUP
	14	Manual paper feed	MPLS2	Manual feed tray
	45	tray empty sensor 2	MDI 01	position detection
	15	Manual paper feed	MPLS1	Manual feed tray
		tray empty sensor 1		position detection
		Manual feed length	MPLD1	Manual feed paper
	47	detection sensor 1		length detection
WWW.SERVICE	E-MAN	Manual feed length detection sensor 2	MPLD2	Manual feed paper
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	A TARY	detection sensor 2		length detection

No.	Name	Code	Function and operation
18	Manual feed paper empty sensor	MPED	Manual feed paper empty detection
19	Door switch	DSWR1	Front door and side door open/close detection
20	2nd right door switch	DSWR2	Side door open/close detection
21	2nd cassette paper pass sensor	PFD2	2nd cassette paper pass
22	2nd cassette paper upper limit detection sensor	LUD2	2nd cassette paper upper limit detection
23	2nd cassette paper empty sensor	PED2	2nd cassette paper empty detection
24	1st cassette paper pass sensor	PPD1H	1st cassette paper pass
25	1st cassette paper upper limit detection sensor	LUD1	1st cassette paper upper limit detection
26	1st cassette paper empty sensor	PED1	1st cassette paper empty detection
27	Toner sensor		Toner density detection
28	Center tray paper YES/NO sensor	LOEMP	Center tray paper YES/NO detection
29	Main switch	PSSW	Main power switch
30	Original size sensor	DSIN0	Document size detection (Inch series: PD1, 2) (AB series: PD1 – 3)
31	Reverse pass paper detection sensor	DUP2	Reverse pass detection

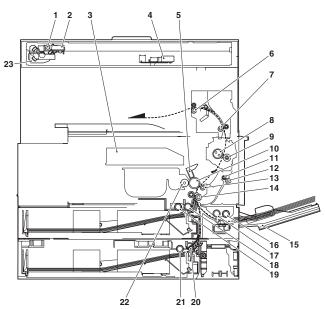
G. PWB unit



No.	Name	Function and operation	
1	Inverter PWB	Copy lamp control	
2	CCD PWB	For image scanning (read)	_
3	Option connector PWB		
4	IMC PWB	Image process	_
5	MCU PWB	Main unit control	
6	Mother board	Connection with FAX PWB and PCL PWB	
7	Tray interface PWB	2nd tray control	~
8	DC power supply PWB	DC voltage control W.SERVI	CE-M-

No.	Name	Function and operation
9	High voltage PWB	High voltage control
10	KEY PWB	
11	OPU PWB	Operation panel control

H. Section



No.	Name	Function and operation
1	Copy lamp	Image radiation lamp
2	Copy lamp Copy lamp unit	Operates in synchronization with
2	Copy lamp unit	2nd/3rd mirror unit to radiate
		documents sequentially.
3	LSU unit	Converts image signals into laser
3		beams to write on the dum.
4	Lens unit	Reads images with the lens and
4		the CCD.
5	MC holder unit	Supplies negative charges evenly
		on the drum.
6	Paper exit roller	Paper exit roller
7	Transport roller	Paper transport roller
8	Upper heat roller	Fuses toner on paper.
		(with the Teflon roller)
9	Lower heat roller	Fuses toner on paper.
		(with the silicone rubber roller)
10	Drum unit	Forms images.
11	DUP transport follower roller	Duplex paper transport
12	DUP transport roller	Duplex paper transport
13	Transport roller	Transfer images on the drum onto paper.
14	Resist roller	Synchronize the paper lead edge
		with the image lead edge.
15	Manual feed tray	Manual feed paper tray
16	Manual paper feed roller	Picks up papers in manual paper feed port.
17	Manual feed transport	Transports paper from the manual
	roller	paper feed port.
18	1st cassette pick-up	Picks up paper from the cassette.
	roller	
19	1st cassette paper feed	Transports the picked up paper to
	roller	RESIST section.
20	2nd cassette pick-up	Picks up paper from the cassette.
	roller	
21	2nd cassette paper feed	Transports the picked up paper to
	roller	RESIST section.
22	MG roller	Puts toner on the OPC drum.
23	2nd/3rd mirror unit	Reflects the images from the copy
11	UAL.NET	lamp unit to the lens unit.
AIV	UAL.IVEI	

[7] ADJUSTMENTS, SETTING

1. List of adjustment items

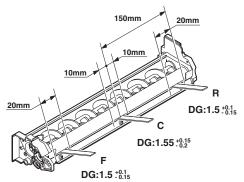
	Section		Adjustment item		Adjustment procedure/SIM No.
Α	Process section	(1)	Developing doctor gap adjustment		Developing doctor gap adjustment
		(2)	MG roller main pole position adjustment		MG roller main pole position adjustment
		(3)	Developing bias voltage adjustment		SIM8-1
		(4)	Grid bias voltage adjustment (High mode)		SIM8-2
		(5)	Grid bias voltage adjustment (Low mode)		SIM8-3
В	Mechanism section	(1)	Print start position adjustment		SIM50-5
		(2)	SPF (RSPF) image lead edge position adjustment		SIM50-6
		(3)	Rear edge void adjustment		SIM50-1-6
		(4)	Paper off center adjustment		SIM50-10
		(5)	Left edge void area adjustment		SIM50-1-8
		(6)	Main scanning direction (FR direction) distortion		No. 2/3 mirror base unit installing position
			balance adjustment		adjustment
					Copy lamp unit installing position adjustment
		(7)	Sub scanning direction (scanning direction)		Winding pulley position adjustment
			distortion adjustment		
		(8)	Main scanning direction (FR direction) distortion		Rail height adjustment
			adjustment		
		(9)	Main scanning direction (FR direction)		SIM48-1-1
			magnification ratio adjustment		
		(10)	Sub scanning direction (scanning direction)	а	OC mode in copying (SIM 48-1-2)
			magnification ratio adjustment	b	RSPF sub scanning direction magnification ratio
					(SIM48-1-3, 48-1-4)
		(11)	· · · · · · · · · · · · · · · · · · ·		SIM50-12
		(12)	OC (RSPF) open/close detection position		SIM41-3
			adjustment		
		(13)	Original sensor adjustment		SIM41-2, 41-4
		(14)	RSPF white correction pixel position adjustment		SIM63-7
			(required in an RSPF model when replacing the		
			lens unit)		
		(15)	RSPF scan position auto adjustment		SIM53-8
С	Image density	(1)	Copy mode		SIM46-2
	(exposure) adjustment				

2. Copier adjustment

A. Process section

(1) Developing doctor gap adjustment

- 1) Loosen the developing doctor fixing screw A.
- 2) Insert a thickness gauge of 1.5mm to the three positions at 20mm and 150mm from the both ends of the developing doctor as shown.



- 3) Tighten the developing doctor fixing screw.
- 4) Check the clearance of the developing doctor. If it is within the specified range, then fix the doctor fixing screw with screw lock.
- * When inserting a thickness gauge, be careful not to scratch the developing doctor and the MG roller.

<Adjustment specification>

Developing doctor gap

F/R both ends (20mm from the both ends):1.5 $^{+0.1\text{mm}}_{-0.15\text{mm}}$

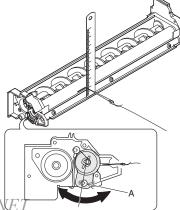
C (Center)(150mm from the both ends):

1.55+0.15pm 0.3mm WW.SERVICE-MANUAL.NE

(2) MG roller main pole position adjustment

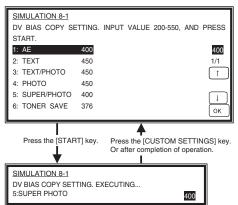
- 1) Put the developing unit on a flat surface.
- 2) Tie a needle or pin on a string.
- Hold the string and bring the needle close to the MG roller horizontally. (Do not use paper clip, which is too heavy to make a correct adjustment.) (Put the developing unit horizontally for this adjustment.)
- 4) Do not bring the needle into contact with the MG roller, but bring it to a position 2 or 3mm apart from the MG roller. Mark the point on the MG roller which is on the extension line from the needle tip.
- 5) Measure the distance from the marking position to the top of the doctor plate of the developing unit to insure that it is 18mm.

If the distance is not within the specified range, loosen the fixing screw A of the main pole adjustment plate, and move the adjustment plate in the arrow direction to adjust.



(3) Developing bias voltage adjustment (SIM 8-1)

1) Execute SIM 8-1.



- 2) Touch the exposure mode to be changed. The current set value is displayed.
- 3) Enter the set value with the 10-key.
- 4) Press the [START] key.

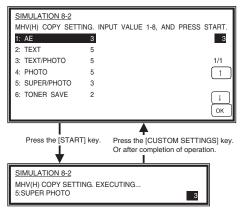
Output is made with the entered value, and the display returns to the original state.

<Adjustment specification>

	Item	Content	Installation range	Default
1	AE	AE	200-550	400 (-400V)
2	TEXT	Character		450 (-450V)
3	TEXT/PHOTO	Character/Photo		450 (–450V)
4	PHOTO	Photo		450 (-450V)
5	SUPER/PHOTO	Super photo		400 (-400V)
6	TONER SAVE	Toner save		376 (-376V)

(4) Grid bias voltage adjustment (High mode) (SIM 8-2)

1) Execute SIM 8-2.



- 2) Touch the exposure mode to be changed. The current set value is displayed.
- 3) Enter the set value with the 10-key.
- 4) Press the [START] key.

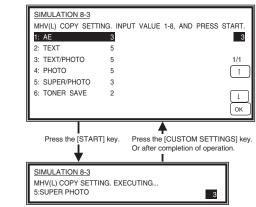
Output is made with the entered value for 30sec, and the display returns to the original state.

<Adjustment specification>

	Item	Content	Setting range	Default
1	AE	AE	1-8	3 (–530V)
2	TEXT	Character		5 (–580V)
3	TEXT/PHOTO	Character/Photo		5 (–580V)
4	PHOTO	Photo		5 (–580V)
5	SUPER/PHOTO	Super photo		3 (–530V)
6	TONER SAVE	Toner save		2 (–505V)

Min. unit: -25V increment

- (5) Grid bias voltage adjustment (Low mode) (SIM 8-3)
- 1) Execute SIM 8-3.



- 2) Touch the exposure mode to be changed. The current set value is highlighted.
- 3) Enter the set value with the 10-key.
- 4) Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

<Adjustment specification>

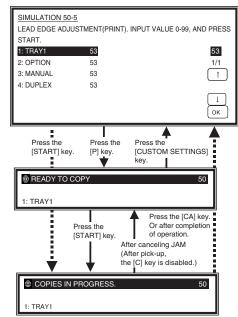
	Item Content		Setting range	Default
1	AE	AE	1-8	3 (–400V)
2	TEXT	Character		5 (–450V)
3	TEXT/PHOTO	Character/Photo		5 (–450V)
4	PHOTO	Photo		5 (-450V)
5	SUPER/PHOTO	Super photo		3 (–400V)
6	TONER SAVE	Toner save		2 (-375V)
N.4.				

Min. unit: -25V increment

B. Mechanism section

(1) Print start position adjustment

1) Execute SIM 50-5.



During execution of copying the [CUSTOM SETTING] key and the [INTERRUPT] key are disabled.

- 2) Touch the item to be adjusted.
- The item and the currently set value are highlighted.
- Press the [P] key.

The display is shifted to the copy menu.

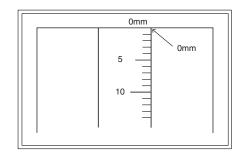
WWW.SERVICE-MA Select the paper feed tray, the print density, and the duplex mode. Enter the adjustment value with the 10-key.

5) Press the [START] key. Copying is started.

	13 0			
	Item	Content	Setting range	Default
1	TRAY1	1st cassette	0-99	53
2	OPTION	Option cassette	1-99	
3	MANUAL	Manual feed		
4	DUPLEX	Back print		

- Measure the distance H between the paper lead edge and the image print start position. Set the image print start position set value again.
 - 1 step of the set value corresponds to about 0.127mm shift.
 - Calculate the set value from the formula below.

99 - H/0.127 (mm) = Image print start position set value <H: Print start position measurement value (mm)>



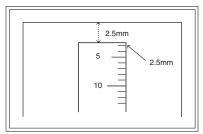
* Fit the print edge with the paper edge, and perform the lead edge adjustment.

Example:99 - 5/0.127 = 99 - 39.4 = about 59

Note: FIf the set value is not obtained from the above formula, perform the fine adjustment.

- 7) Execute SIM 50-1-2 to adjust the main cassette lead edge void.
 - 1 step of the set value corresponds to about 0.127mm shift.
 - · Calculate the set value from the formula below.

B/0.127 (mm) = Lead edge void adjustment value <B: Lead edge void (mm)>



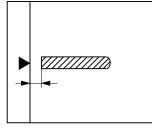
Example: When setting the lead edge void to 2.5mm: 2.5 / 0.127 = about 20

<Adjustment specification>

Adjustment mode	SIM	Set value	Spec value	Setting range
Main cassette	50-1-	B/0.127	Lead edge void:	1 – 99
lead edge void	2		1 – 4mm	
Print start	50-5	99 – H/0.127	Image loss: 3mm	
position			or less	

(2) SPF (RSPF) image lead edge position adjustment

1) Set a scale on the OC table as shown below.



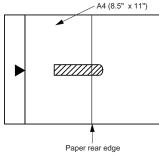
- Note: Since the printed copy is used as a test chart, put the scale in paralleled with the edge lines.
- Make a copy, then use the copy output as an original to make an SPF (RSPF) copy again.
- Check the copy output. If necessary, perform the following adjustment procedures.
- 4) Execute SIM 50-6.
- Set the SPF (RSPF) lead edge position set value so that the same image is obtained as that obtained in the previous OC image lead edge position adjustment.

<Adjustment specification>

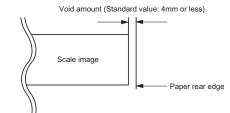
Adjustment mode	SIM	Set value	Spec value	Setting range
SPF (RSPF) image lead edge position	50-6	1 step: 0.127mm shift	Lead edge void: 1 – 4mm Image loss: 3mm or less	1 – 99

(3) Rear edge void adjustment

1) Set a scale as shown in the figure below.



- Set the document size to A4 (8.5" x 11"), and make a copy at 100%.
- 3) If an adjustment is required, follow the procedures below.



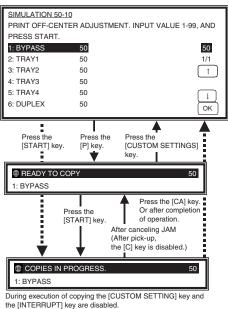
- Execute SIM 50-1 and set the density mode to DEN-B. The currently set adjustment value is displayed.
- 5) Enter the set value and press the start key.
 - The correction value is stored and a copy is made.

<Adjustment specification>

Adjustment mode	SIM	Set value	Spec value	Setting range
Rear edge void	50-1-6	1 step: 0.127mm shift	4mm or less	1 – 99

(4) Paper off center adjustment

- 1) Set a test chart (UKOG-0089CSZZ) on the document table.
- 2) Select a paper feed port and make a copy.
- 3) Execute SIM 50-10.



- 4) Touch the item to be adjusted.
- The item and the currently set value are highlighted.
- 5) Press the [START] key.
- The display is shifted to the copy menu.
- 6) Select the paper feed tray and the print density. Enter the adjustment value with the 10-key.
- 7) Press the [START] key.
 - Copying is started.

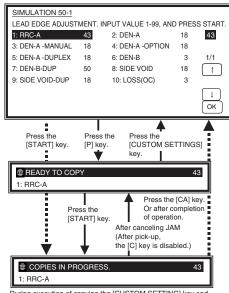
1BYPASSManual feed1-99502TRAY11st cassette3TRAY22nd cassette4TRAY33rd cassette5TRAY44th cassette		Item	Content	Setting range	Default
3 TRAY2 2nd cassette 4 TRAY3 3rd cassette	1	BYPASS	Manual feed	1-99	50
4 TRAY3 3rd cassette	2	TRAY1	1st cassette		
	3	TRAY2	2nd cassette		
5 TRAY4 4th cassette	4	TRAY3	3rd cassette		
	5	TRAY4	4th cassette		
6 DUPLEX Back print	6	DUPLEX	Back print		

<Adjustment specification>

Adjustment mode	SIM	Set value	Spec value	Setting range
Paper off	50-10	Add 1: 0.127mm	Single:	1 – 99
center	-2	shift to R side.	Center	
		Reduce 1:	±2.0mm	
Second	50-10	0.127mm shift to L	Duplex:	
printsurface	-6	side.	Center	
off-center			±2.5mm	

(5) Left edge void area adjustment

- Note: Before performing this adjustment, be sure to check that the paper off center adjustment (SIM 50-10) is completed.
- 1) Execute SIM 50-1.



During execution of copying the [CUSTOM SETTING] key and the [INTERRUPT] key are disabled.

- Note down the adjustment value of SIM 50-5 (Items 1, 2, 3, 4), and change the value to 99.
- 3) Set SIM 50-1 (Items 2, 3, 4, 5) to 1. (By setting to 1, there is no void.)
- Place a chart with a clear lead edge (or a ruler) on the OC document table.
- Use SIM 50-1 (Item 1) to execute test print. Check the print out and adjust so that the lead edge image is printed. (1 – 99: About 0.127mm/Step)
- 6) Reset the adjustment values of SIM 50-5 (Items 1, 2, 3, 4) to the original values, and execute test print. Check the print out and adjust so that the lead edge image is printed on the lead edge of paper. (1 99: About 0.127mm/Step).
- Adjust SIM 50-1 (Items 2, 3, 4, 5) so that the lead edge void on the print out is the specified value. (1 – 99: About 0.127mm/Step)
- Similar to procedure 7, adjust SIM 50-1 (Item 6, 7) so that the rear edge void is the specified value. (1 – 99: About 0.127mm/Step)
- Similar to procedure 7, adjust SIM 50-1 (Item 8, 9) so that the left edge void is the specified value. (1 – 99: About 0.127mm/Step)
- 10) Make an enlargement copy (400%), and check that there is no shade of the cabinet printed at the lead edge.
- 11) If there is a shade printed at the lead edge in procedure 9, adjust SIM 50-1 (Item 10). (1 5: About 0.677mm)
 - * If there is no problem, set to 3.

2.5mm		Item	Content	Setting range	Default
	1	RRC-A	Original scan start position	1-99	43
			adjustment		
			Lead edge position		
			adjustment value (OC)		
	2	DEN-A	Lead edge cancel	1-99	18
			adjustment (Main cassette)		
	3	DEN-A-MANUAL	Lead edge cancel	1-99	18
			adjustment (Manual feed		
			cassette)		
	4	DEN-A-OPTION	Lead edge cancel	1-99	18
			adjustment (Option cassette)		
	5	DEN-A-DUPLEX	Lead edge cancel	1-99	18
			adjustment (back of the		
			machine)		
WWW.SERVICE-N	[9]	DENABL NET	Rear edge void adjustment	1-99	30

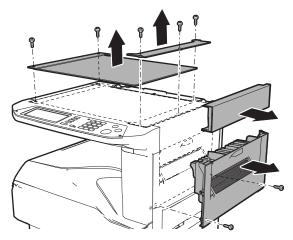
ltem		Content	Setting range	Default
7	DEN-B-DUP	Rear edge void adjustment (Duplex)	1-99	50
8	SIDE VOID	Left edge void adjustment (First print surface)	1-99	18
9	SIDE VOID-DUP	Left edge void adjustment (Duplex)	1-99	18
10	LOSS(OC)	Image loss amount adjustment (Lead edge image loss set value) (OC)	1-5	3

<Adjustment specification>

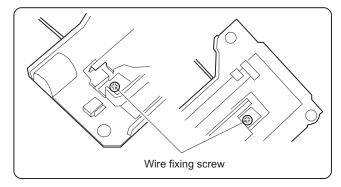
Adjustment	SIM	Set value	Spec	Setting
mode	Silvi	Set value	value	range
Left edge void	50-1-	1 step: 0.127mm	0.5 – 4mm	1 – 99
	8	shift		

(6) Main scanning direction (FR direction) distortion balance adjustment

1) Remove the OC glass, the right cabinet and the upper right side cover.

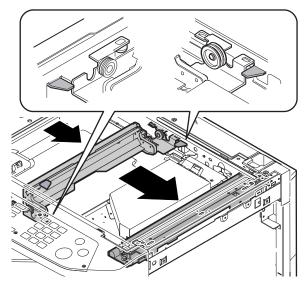


2) Loosen the copy lamp unit wire fixing screw.

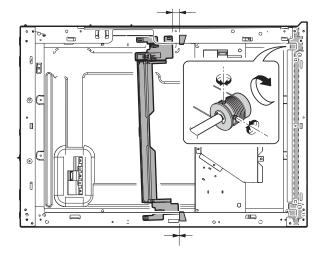


3) Manually turn the mirror base drive pulley and bring No. 2/3 mirror base unit into contact with the positioning plate.

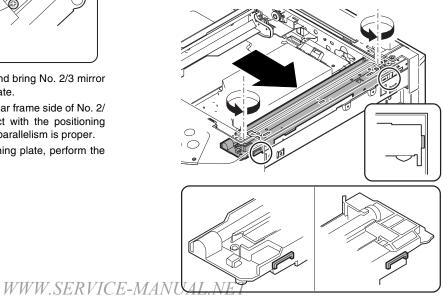
At that time, if the front frame side and the rear frame side of No. 2/ 3 mirror base unit are brought into contact with the positioning plate at the same time, the mirror base unit parallelism is proper. If one of them is in contact with the positioning plate, perform the adjustment of 4).



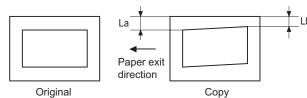
- 4) Loosen the set screw of the scanner drive pulley which is not in contact with No. 2/3 mirror base unit positioning plate.
- 5) Without moving the scanner drive pulley shaft, manually turn the scanner drive pulley until the positioning plate is brought into contact with No. 2/3 mirror base unit, then fix the scanner drive pulley.



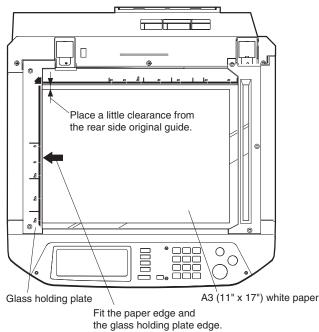
6) Put No. 2/3 mirror base unit on the positioning plate again, push the projections on the front frame side and the rear frame side of the copy lamp unit to the corner frame, and tighten the wire fixing screw.



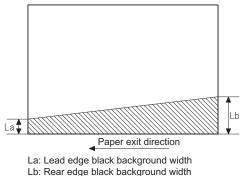
- (7) Sub scanning direction (scanning direction) distortion adjustment (Winding pulley position adjustment)
- This adjustment must be performed in the following cases:
- When the mirror base drive wire is replaced.
- When the lamp unit, or No. 2/3 mirror holder is replaced.
- When a copy as shown is made.



1) Set A3 (11" x 17") white paper on the original table as shown below.



- 2) Open the original cover and make a normal (100%) copy.
- Measure the width of the black background at the lead edge and at the rear edge.



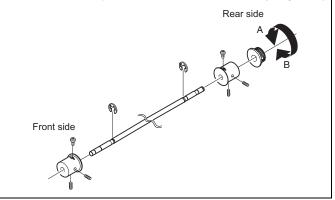
If the width (La) of the black background at the lead edge is equal that (Lb) at the rear edge, there is no need to execute the following procedures of 4) - 7).

4) Loosen the mirror base drive pulley fixing screw on the front frame side or on the rear frame side.

When La < Lb

Turn the mirror base drive pulley on the front frame side in the arrow direction A. (Do not move the mirror base drive pulley shaft.)

When La > Lb Turn the mirror base drive pulley on the rear frame side in the arrow direction A. (Do not move the mirror base drive pulley shaft.)



5) Tighten the fixing screw of the mirror base drive pulley.

<Adjustment specification>

La = Lb

6) Execute the main scanning direction (FR) distortion balance adjustment previously described in 2) again.

(8) Main scanning direction (FR direction) distortion balance adjustment (Rail height adjustment)

When there is no skew copy in the mirror base scanning direction and there is no horizontal error (right angle to the scanning direction), the adjustment can be made by adjusting the No. 2/3 mirror base unit rail height.

Before performing this adjustment, be sure to perform the horizontal image distortion adjustment in the laser scanner section.

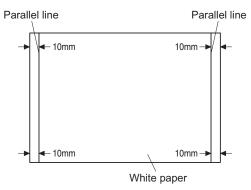
This adjustment must be performed in the following cases:

- When the mirror base wire is replaced.
- When the copy lamp unit and no. 2/3 mirror unit are replaced.
- When the mirror unit rail is replaced and moved.
- · When a following copy is made.



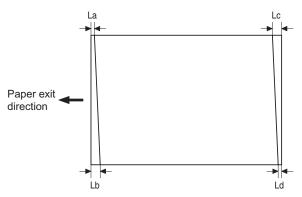
1) Make an original for the adjustment.

Make test sheet by drawing parallel lines at 10mm from the both ends of A3 (11" x 17") white paper as shown below. (These lines must be correctly parallel to each other.)



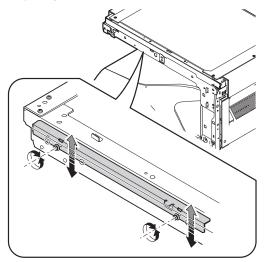
 Make a normal (100%) copy of the test sheet on A3 (11" x 17") paper. (Fit the paper edge and the glass holding plate edge.)

3) Measure the distances (La, Lb, Lc, Ld) at the four corners as shown below.



When La = Lb and Lc = Ld, no need to perform the procedures 4) and 5).

 Move the mirror base B rail position up and down (in the arrow direction) to adjust.



- When La > Lb
- Shift the mirror base B rail upward by the half of the difference of La-Lb.
- When La < Lb
- Shift the mirror base B rail downward by the half of the difference of Lb–La.

Example: When La = 12mm and Lb = 9mm, shift the mirror base B rail upward by 1.5mm.

• When Lc >Ld

Shift the mirror base B rail downward by the half of the difference of Lc–Ld.

• When Lc < Ld

When Lc < Ld, move the mirror base B on the paper feed side upward.

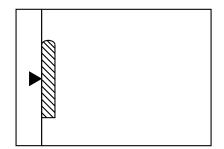
* When moving the mirror base rail, hold the mirror base rail with your hand.

<Adjustment specification>

La = Lb, Lc = Ld

- 5) After completion of adjustment, manually turn the mirror base drive pulley, scan the mirror base A and mirror base B fully, and check that the mirror bases are not in contact with each other.
- * If the mirror base rail is moved extremely, the mirror base may be in contact with the frame or the original glass. Be careful to avoid this.
- (9) Main scanning direction (FR direction) magnification ratio adjustment (SIM 48-1)
- Note: Before performing this adjustment, be sure to check that the CCD unit is properly installed.

1) Put a scale on the original table as shown below.



- 2) Execute SIM 48-1.
- After warm-up, shading is performed and the current set value of the main scanning direction magnification ratio is displayed on the display section in 2 digits.
- 4) Manual correction mode (SIM48-1-1)

Enter the set value and press the start key.

The correction value is stored and a copy is made.

<Adjustment specification>

Note: A judgment must be made with 200mm width, and must not be made with 100mm width.

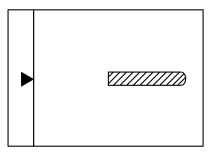
Adjustment mode	Spec value	SIM	Set value	Setting range
Main scanning	At normal:	48-	Add 1: 0.1%	1 – 99
direction	±1.0%	1-1	increase	
magnification			Reduce 1: 0.1%	
ratio			decrease	

(10) Sub scanning direction (scanning direction) magnification ratio adjustment (SIM 48-1-2)

a. OC mode in copying

Note: Execute the procedure after completion of SIM 48-1-2.

 Put a scale on the original table as shown below, and make a normal (100%) copy.



- Compare the scale image and the actual scale. If necessary, perform the following adjustment procedures.
- 3) Execute SIM 48-1-2.
- Enter the set value and press the start key. The set value is stored and a copy is made.

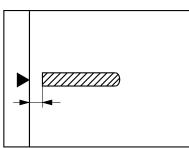
<Adjustment specification>

Adjustment mode	Spec value	SIM	Set value	Setting range
Sub scanning	At normal:	48-1-	Add 1:	1 – 99
direction	±1.0%	2	0.05% increase	
magnification			Reduce 1:	
ratio (OC mode)			0.05% decrease	

b. RSPF sub scanning direction magnification ratio

Note: Before performing this adjustment, be sure to check that the CCD unit is properly installed and that OC mode adjustment in copying has been completed.

 Put a scale on the original table as shown below, and make a normal (100%) copy to make a test chart.



- Note: Since the printed copy is used as a test chart, put the scale in parallel with the front side edge of the glass.
- 2) Set the test chart on the RSPF and make a normal (100%) copy.
- Compare the scale image and the actual image. If necessary, perform the following adjustment procedures.
- 4) Execute SIM 48-1-3.
- After warm-up, shading is performed. The current front surface sub scanning direction magnification ratio correction value is displayed in two digits on the display section.
- 6) Enter the set value and press the start key. The set value is stored and a copy is made.
- Execute SIM 48-1-4. The current back surface sub scanning direction magnification ratio is displayed in two digits on the display section.
- 8) Enter the set value and press the start key. The set value is stored and a copy is made.

<Adjustment specification>

Adjustment mode	Spec value	SIM	Set value	Setting range
Sub scanning	At normal:	48-1-3	Add 1:	1 – 99
direction	±1.0%	48-1-4	0.05% increase	
magnification			Reduce 1:	
ratio (SPF mode)			0.05% decrease	

(11) Off center adjustment (RSPF mode)

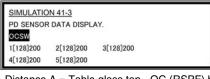
- Note: Before performing this adjustment, be sure to check that the paper off center is properly adjusted.
- 1) Place the center position adjustment test chart (sheet with a straight line in the scan direction at the center) on the RSPF.
- 2) Make a normal copy from the manual paper feed tray, and check the printed copy with the test chart.
- If any adjustment is required, perform the following procedure.
- 3) Execute SIM 50-12.
- After warm-up, shading is performed and the current set value of the off center adjustment is displayed on the display section in 2 digits.
- 5) Enter the set value and press the start key. The set value is stored and a copy is made.

<Adjustment specification>

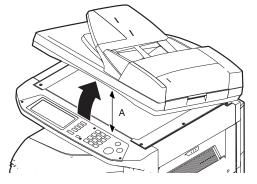
Adjustment mode	Spec value	SIM	Set value	Setting range
Original off center mode	Single: Center ± 3.0mm	50-12	Add 1: 0.1mm shift to R side	1 – 99
(RSPF mode)	Duplex: Center ±3.5mm		Reduce 1: 0.1mm shift to L side	

(12) OC (SPF) open/close detection position adjustment

- 1) Execute SIM 41-3.
- Gradually close the OC (SPF) from the full open position, and measure distance A when the display on the operation panel changes. (See the figure below.)



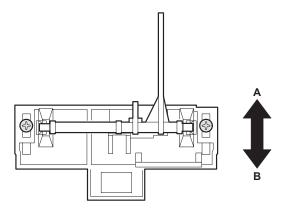
Distance A = Table glass top - OC (RSPF) handle rib



<Adjustment specification>

OC (SPF) open/close position A: 125 - 225mm

- 3) If the distance is outside the specified range, adjust the open/close sensor attachment plate position as shown below.
- Distance < 125mm: Shift toward A.
- Distance > 225mm: Shift toward B.



(13) Original sensor adjustment (SIM 41-2, 41-4)

- Set A3 (11" x 17") paper on the OC table. (Keep the SPF (OC cover) open.)
- 2) Execute SIM 41-2.
- 3) Keep A=125mm, and execute SIM 41-4. (Do not put paper on the table.)
- 4) Check the reaction with SIM 41-1.
- (14) RSPF white correction pixel position adjustment (required in an RSPF model when replacing the lens unit) (SIM63-7)
- 1) Fully open the RSPF.
- 2) Execute SIM 63-7.
- When the operation panel displays "COMPLETE," the adjustment is completed.
- If the operation panel displays "ERROR," perform the following measures.
- When the display is 0:

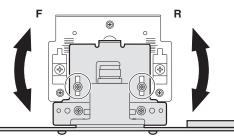
Check that the SPF is open. Check that the lamp is ON. (If the lamp is OFF, check the MCU connector.)

Check that the CCD harness is properly inserted into the MCU connector.

• When the display is 281 or above:

1) Remove the table glass. WWW.SERVICE-M2) Remove the dark box.

- 3) Slide the lens unit toward the front side and attach it, then execute SIM.
- When the display is 143 or below:
 - 1) Remove the table glass.
 - 2) Remove the dark box.
 - 3) Slide the lens unit toward the rear side and attach it, then execute SIM.



- * When the lens unit is moved, execute the OC main scanning magnification ratio auto adjustment, SIM 48-1-1.
- * This adjustment is basically O.K. with SIM 63-7.

(15) RSPF scan position auto adjustment

[Function]

Used to adjust the RSPF scan position automatically.

[Operation]

- With the RSPF or the OC cover open, place a chart of black background on the OC glass. (In the RSPF standard model, the RSPF glass surface is included.)
- Use a black chart (UKOG-0011QSZZ) or prepare a chart as shown below.

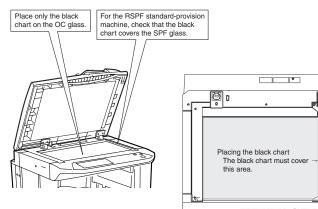
Chart size: 310 x 470, prepared with cutting sheet No. 791 (Black) or an equivalent one.

Reason: To prevent erroneous detection by disturbing light of a fluorescent lamp, etc.

 Enter SIM53-08, and press [START] button. Outline of SIM: The optical unit is shifted to recognize the boundary between the OC glass and the RSPF glass cover. With the same position as the reference, the RSPF scan position is automatically adjusted.

<Note>

- After completion of the RSPF scan position auto adjustment, the SPF lead edge adjustment must be executed. (Both surfaces)
- There must be no other sheet than the black chart on the glass surface.
- Especially when in RSPF scan, the center area is scanned in the main scan direction. Be careful to prevent external light from entering the scan area.
- Check that the lead edge is not shifted. (Both surfaces) (If the original lead edge adjustment has been made properly, even when the scan position is shifted, it is followed automatically.)



 4) Change the adjustment value of the RSPF scan end position. (Change the adjustment value of SIM50-6-3 from 50 to 36.)
 Change the number of steps for Pin off – scan end position from 1,014 to 986.
 Be sure to execute this adjustment because an image may be suit

Be sure to execute this adjustment because an image may be cut off during FAX transmission though copying is normally performed.

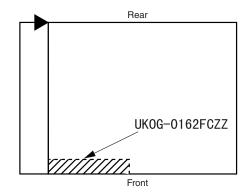
5) Change the initial value of the RSPF exposure adjustment (SIM46-20) from 50 to 53.(For the CCD exposure adjustment with RSPF, use the value of

the OC adjustment value +3.) There are suffixes of -1 SPF and -2 RSPF. Change each of them.

C. Image density (exposure) adjustment

(1) Copy mode (SIM46-2)

1) Set a test chart (UKOG-0162FCZZ) on the OC table as shown below.



- 2) Place three or more sheets of A3 (11" x 17") paper on the test chart.
- 3) Execute SIM 46-2.
- After warm-up, shading is performed and the current set value of the density (exposure) level is displayed on the display section in 2 digits.

For mode selection, use the [10-key].

- Change the set value with the [10-key] to adjust the copy image density.
- 6) Make a copy and check that the specification below is satisfied.
- Note: Place originals in the rear reference, and the test chart in the front reference when adjusting the exposure.

<Adjustment specification>

Density mode	Exposure level	Sharp Gray Chart output	Set value	Setting
AUTO	level	"3" is copied.	If too bright,	range 0 – 99
TEXT	1.0	"7" is copied.	increase the quantity displayed	0 – 99
	3.0	"3" is copied.	on the copy	
	5.0	"2" is copied.	quantity display.	
TEXT/PHOTO	1.0	"6" is copied.	If too dark,	
	3.0	"3" is copied.	decrease the	
	5.0	"2" is copied.	quantity displayed	
РНОТО	1.0	"5" is copied.	on the copy	
	3.0	"3" is copied.	quantity display.	
	5.0	"2" is copied.		
SUPER PHOTO	1.0	"5" is copied.		
	3.0	"3" is copied.		
	5.0	"2" is copied.		
AE (TONER SAVE)	-	"3" is copied.		
TEXT (TONER	1.0	"7" is copied.		
SAVE)	3.0	"3" is copied.]	
	5.0	"2" is copied.		
TEXT PHOTO	1.0	"6" is copied.	1	
(TONER SAVE)	3.0	"3" is copied.]	
	5.0	"2" is copied.]	

[8] SIMULATION

(Diagnostics, setup, adjustment value input, data display)

1. Outline and purpose

The simulation has the following functions to grasp the machine operating status, identify the trouble position and causes in an earlier stage, and make various setups and adjustments speedily for improving the serviceability of the machine.

- 1) Various adjustments
- 2) Setup of specifications and functions
- 3) Canceling troubles
- 4) Operation check
- 5) Various counters check, setup, and clear
- 6) Machine operating status (operation history) data check, clear

7) Transfer of various data (adjustments, setup, operations, counters) The operating procedures and the displays differ depending on the

form of the operation panel of the machine.

2. Code-type simulation

A. Operating procedures and operations

- * Entering the simulation mode
- 1) #/P key (program) ON \rightarrow Asterisk (*) key ON \rightarrow CLEAR key ON \rightarrow Asterisk (*) key ON \rightarrow Ready for input of a main code of simulation
- 2) Entering a main code with the 10-key \rightarrow START key ON
- 3) Entering a sub code with the 10-key \rightarrow START key ON
- 4) Select an item with the scroll key and the item key.
- The machine enters the mode corresponding to the selected item. Press START key to start the simulation operation. To cancel the current simulation mode or to change the main code and the sub code, press the CUSTOM SETTINGS key.
- * Canceling the simulation mode to return to the normal mode
- 1) Press CLEAR ALL key.

B. How to change the simulation adjustment value set by the touch panel in the adjustment value entry process

(1) Target SIM list

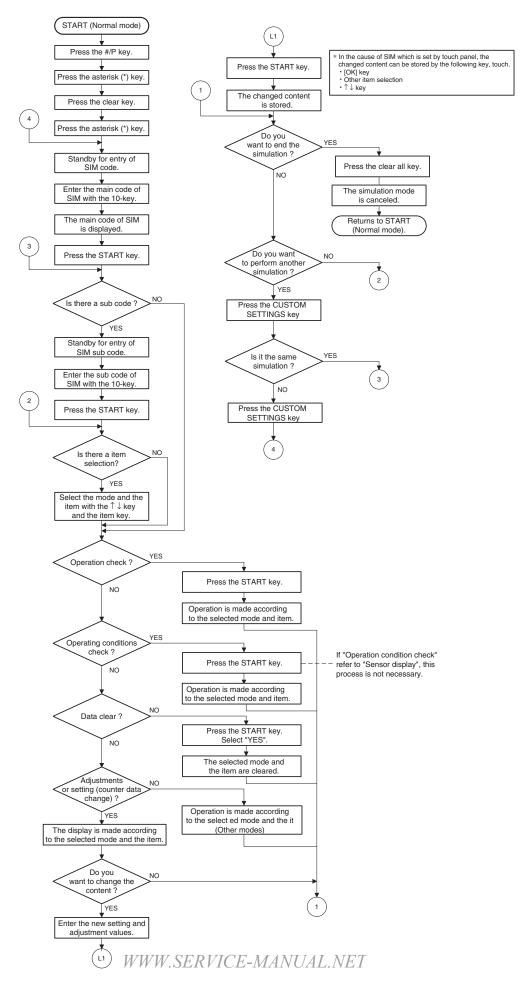
3-7, 8-1, 8-2, 8-3, 8-10, 8-11, 8-12, 9-5, 43-1, 44-34, 46-2, 46-7, 46-9, 46-10, 46-11, 46-18, 46-20, 46-30, 46-31, 48-1, 48-2, 50-1, 50-5, 50-6, 50-10, 50-12, 51-1, 51-2, 51-9, 53-7

(2) Touch panel operating procedure

- In the adjustment value setup menu, the selected item is highlighted. Change is made to the highlighted simulation adjustment value.
- If all the list of the adjustment items is not shown on one page, touch
 [[↑]] and [[↓]] button to shift the page.
- To change an adjustment value, touch the select the item to change the adjustment value. (The selected item is highlighted.) Enter the adjustment value and perform one of the following procedures, and the display of the adjustment value of the selected item is renewed as well as the adjustment value.
- 1) Touch [OK] button.
- 2) Touch another selected item to change the selection state.
- If all the list of the adjustment items cover two or more pages, touch [↑] and [↓] button to shift the page.

4) Press [START] key.

- * For simulations which allow confirmation print, copying is started after changing the adjustment value.
 (46-2, 46-7, 46-9, 46-10, 46-11, 46-18, 48-1, 48-2, 50-1, 50-5, 50-6,
- 50-10, 50-12, 51-2, the bold-faced items in the above list.)
 * If the entry value is outside the adjustable range, an error buzzer sounds and the adjustment value is not renewed. Page shift is not made. either.



3. Simulation code list

Co Main	de Sub	Function
iviain 1	500 1	Used to check the operation of the scanner unit
1	1	and its control circuit.
	2	Used to check the operation of sensor and
	2	detector in the scanning (read) section and the
		related circuit.
2	1	Used to check the operation of the SPF/RSPF unit
2	1	and the related circuit.
	2	Used to check the operation of sensors and
	2	detectors in the SPF/RSPF unit and the related
		circuit.
	3	
	3	Used to check the operation of the loads in the SPF/RSPF unit and the control circuits.
3	2	
3	2	Used to check the operation of sensor and
	0	detector in the finisher and the related circuit.
	3	Used to check the operation of the load in the
	-	finisher and the control circuit.
	6	Used to adjust the alignment position (side
		regulation plate, rear edge regulation plate) for
		each paper size.
		Shifts to the specified paper size position.
	7	Used to adjust the offset tray operations.
	11	Used to check the shifter operation.
		Reciprocating operations are continuously
		performed or the home position is checked. (The
		shifter is shifted to the home position or moved in
		one way by the specified steps.)
4	2	Used to check the operation of sensor and
		detector in the option cassette and the related
		circuit.
	3	Used to check the operation of the load in the
		option tray and the control circuit.
5	1	Used to check the operation of the display (LED),
		LCD in the operation panel, and control circuit.
	2	Used to check the operation of the heater lamp
		and the control circuit.
	3	Used to check the operation of the copy lamp and
		the control circuit.
6	1	Used to check the operation of the loads (clutches
		and solenoids) in the paper transport system and
		the control circuit.
	2	Used to check the operation of each fan motor and
		its control circuit.
7	1	Used to set the aging operation conditions.
	6	Used to set the cycle of intermittent aging.
	8	Used to set the display of the warm-up time.
8	1	Used to check and adjust the operation of the
-	-	developing bias voltage in each copy mode and
		the control circuit.
	2	Used to check and adjust the operation of the mair
		charger grid voltage (high mode) in each copy
		mode and the control circuit.
	3	Used to check and adjust the operation of the main
	5	charger grid voltage (low mode) in each copy
		mode and the control circuit.
	10	Used to check and adjust the operation of the
	10	developing bias voltage in each printer mode and
		the control circuit.
	11	
	11	Used to check and adjust the operation of the main
		charger grid voltage (high mode) in each printer
	10	mode and the control circuit.
	12	Used to check and adjust the operation of the main
		charger grid voltage (low mode) in each printer
		mode and the control circuit.

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Co	de	-
Main	Sub	Function
24	7	Used to clear the OPC drum (membrane decrease) correction counter. (This simulation is executed when the OPC drum is replaced.
	9	Used to clear the printer counter and other counters. (The counter is cleared after completion of maintenance.)
	10	FAX counter data clear
	15	Used to clear the scanner counter in the network scanner mode.
25	1	Used to check the operation of the main drive (excluding the scanner section) and to check the operation of the toner concentration sensor. (The toner concentration sensor output can be monitored.) (To be supported for Ver.00.72 or later)
	2	Used to make the initial setting of toner concentration when replacing developer.
26	1	Used to set whether the job separator is installed or not. (Since this cannot be detected by hardware detection, it is set in this simulation.)
	2	Used to set whether the automatic detection of paper size is made or not.
	3	Used to set the specifications of the auditor. Setting must be made depending on the use condition of the auditor.
	5	Used to set the count mode of the total counter and the maintenance counter.
	6	Used to set the specifications depending on the destination.
	10	Network scanner trial mode setting
	12	Used to input the Software Key for E-MAIL RIC.
	14	Used to input the Software Key for the PS extension kit.
	18	Used to set enable/disable of toner save operation.
	22	Used to set the specification (language display) for the destination.
	30	Used to set ON/OFF of the heater lamp slow-up control conforming to the CE mark control.
	35	Used to set whether the same continuous troubles are displayed as one trouble or the series of troubles with SIM 22-4 when the same troubles occur continuously.
	36	Used to set whether the machine is stopped or not when the maintenance counter life is expired.
	41	Used to set ON/OFF of the automatic magnification ratio selection (AMS) when setting the binding function.
	46	Used to set whether to meet with the output direction of images regardless of the mode when installing the finisher.
	50	Used to set ON/OFF of the black and white reversion function.
	57	Used to set the model code.
	60	Used to set enable/disable of the FAX mode key when FAX is not installed. (When FAX is installed, the FAX mode is enabled regardless of this setup.)
	71	In the power save time setting, the pre-heat (pre- heat mode setting) and the auto power shut off time can be set to the short time setup (pre-heat: 1 min, auto power shut off: 4 min) and the long time setup (pre-heat: 15min, auto power shut off: 60min).
27	1	Used to set PC/MODEM communication trouble (U7-00) detection Yes/No.
	5	Used to set the tag number.

Code		F ormation
Main	Sub	Function
30	1	Used to display the sensor status attached to the machine.
	2	Used to display the status of the sensors attached to the standard cassette and the manual feed tray.
		(Use SIM 4-2 for the option cassettes.) The sensor of an uninstalled cassette is not
40	1	displayed. Used to check the sensor of the machine manual feed tray.
	2	Used to adjust the manual paper feed tray paper width detector detection level.
	3	The AD conversion value of manual feed width detection is displayed.
41	1	Used to check the document size detection photo sensor.
	2	Used to adjust the detection level of the document size photo sensor.
	3	Used to check the light reception level and the detection level of the original size detection photo sensor.
	4	Used to adjust the detection level of OC 20 degrees.
43	1	Used to set the fusing temperature in 600dpi, 1200dpi, or postcard print.
	10	Used to set the paper feed cycle timing when printing postcards.
44	1	Used to make various setups in each mode of process control.
	34	Used to set the transfer current value in each mode.
	35	Used to set the DV-Bias/Grid environment (low temperature) correction temperature.
	40	Used to set the time from the start of the main motor rotation (Ready) to the start of toner supply in previous rotation after turning on the power.
46	2	Used to set the exposure level in each exposure mode.
	7	Used to adjust the shift amount and the inclination value for each level (1 to 5) of the exposure mode (Super Photo).
	9	Used to adjust the shift amount and the inclination value for each level (1 to 5) of the exposure mode (Text).
	10	Used to adjust the shift amount and the inclination value for each level (1 to 5) of the exposure mode (Text/Photo).
	11	Used to adjust the shift amount and the inclination value for each level (1 to 5) of the exposure mode (Photo).
	12	FAX exposure level adjustment (1 mode automatic adjustment)
	13	FAX exposure level adjustment (Normal mode individual adjustment)
	14	FAX exposure level adjustment (Fine text mode individual adjustment)
	15	FAX exposure level adjustment (Super Fine mode individual adjustment)
	16	FAX exposure level adjustment (Ultra Fine mode individual adjustment)
	18 19	Used to adjust inclination for each exposure mode. Used to set the control method of the exposure
	20	mode. Used to set the exposure correction value of SPF/
	30	RSPF for OC exposure. Used to set the AE and the limit value in AE (Toner
AND	AL N	_save).

	de	Function
Main	Sub	
46	31	Used to set the AE and the limit value in AE (Toner save).
	39	Used to switch the FAX send image quality.
48	1	Used to adjust the copy mode magnification ratio
		(main scanning direction, sub scanning direction).
	2	Used to adjust the scanner mode magnification
		ratio (main/sub scanning direction).
	8	FAX magnification adjustment (read)
	9	FAX magnification adjustment (print)
50	1	Used to adjust the copy lead edge position.
00	5	Used to adjust the print image position (top
	5	margin) on the print paper in the print mode.
	6	Used to adjust the print image position (top
	0	margin) on print paper in the copy mode. (SPF/ RSPF)
	8	FAX lead edge adjustment (read)
	9	FAX lead edge adjustment (print)
	10	Used to adjust the print image center position.
	10	(Adjustment can be made for each paper feed
		section.)
	12	Used to adjust the print image center position.
	12	(Adjustment can be made for each document
		mode.)
51	1	Used to adjust the OPC drum separation pawl ON
01		time.
	2	Used to adjust the contact pressure of paper onto
	-	the resist roller in each section (copier paper feed
		section, duplex paper feed section, SPF/RSPF
		paper feed section). (When the print image
		position varies greatly for the paper or when a lot
		of paper jam troubles occur, the adjustment is
		required.)
	8	Used to set the OPC drum separation pawl
		operation inhibit. (ON/OFF)
	9	Used to adjust the OPC drum separation voltage
		ON/OFF timing.
53	6	Used to adjust the detection level of the SPF/
		RSPF width. The adjustment method is the 4-point
		system. Set the guide to Max. (A3/WLetter)
		position, A4R/Letter R position, A5R/Invoice R
		position, and Min. position for adjustment.
	7	Used to enter the SPF/RSPF width detection
		adjustment value.
	8	Used to adjust the SPF/RSPF scan position of the
		mirror unit automatically. For the SPF/RSPF scan
		position automatic adjustment, the mirror unit is
		shifted to 11mm before the SPF/RSPF glass cover
		edge, and is operated automatically to scan
		images by the unit of 1 step, detecting the position
		up to the glass cover automatically.
		(Adjustment value)
		Default: 50, Adjustment range: 1 - 99
61	-	Adjustment unit: 1 = about 0.12mm
61	1	Used to check the LSU (polygon motor) operation.
63	1	Used to check the result of shading correction.
	_	(The shading correction data are displayed.)
	7	Used to adjust the SPF/RSPF white correction
		start pixel position automatically.
		This adjustment is performed after the lens unit is
64		replaced.
64	1	Used to check the operation of the printer function
	1	(auto print operation).

Code		
Main	Sub	Function
65	1	Used to adjust the touch panel (LCD display
	•	section) detection position.
	2	Used to check the touch panel (LCD display
	-	section) detection position adjustment result.
	5	Used to check the key inputs of the operation
	Ũ	panel.
66	1	Used to change and check the FAX-related soft
		SW.
	2	Used to clear the FAX-related soft SW. (Except for
		the FAX adjustment values)
	3	FAX PWB memory check
	4	Signal send mode (Signal send level: Max.)
	5	Signal send mode (Signal send level soft SW
	Ũ	setting)
	6	Printing the confidential password
	7	Print the screen memory contents
	8	Voice Message send (Signal send level: Max.)
	0	(Japan only)
	9	Used to send the voice message. (Signal send
	U	level: Set by soft SW.)
	10	Image data memory clear
	10	Used to send 300bps signals. (Signal send level:
	•••	Max.)
	12	Used to send 300bps signals. (Signal send level:
		Set by soft SW)
	13	Used to register the dial numbers.
	14	Used to perform the dial test. (10 PPS send test)
	15	Used to perform the dial test. (20 PPS send test)
	16	Used to perform the dial test. (DTFM signal send
	10	test)
	17	Used to check the DTFM signal send operation.
	.,	(Signal send level: Max.)
	18	Used to check the DTFM signal send operation.
	10	(Signal send level: Set by soft SW.)
	19	Used to write the SRAM data to the Flash ROM.
	20	Used to write the Flash ROM data to the SRAM.
	21	FAX information print
	22	Handset sound volume adjustment (Japan only)
	22	Used to clear the FAST storage data. (SEC only)
	30	Used to set the TEL/LIU.
	30	Used to set the TEL/LIU.
	31	Receive data check
	-	
	33	Signal detection check
	34	Communication time measurement display
	37	Speaker sound volume adjustment
	41	CI signal check
67	1	Used to execute read/write check of the RAM on
		the PCL board, and to display the result. (To be
		supported for MCU v00.45 or later)
	11	Used to set the select-in signal of the Centro port.
	14	Used to check write/comparison of flash programs.
	15	Used to check the validity of the ROM on the PCL
		board and the result is displayed. (To be supported
		for MCU v00.45 or later)
	17	Used to clear the printer section setting. (NVRAM
	40	clear)
	18	Used to clear the data area for FLASH ROM
		Network Scanner Application.
	20	Used to check the network connection when the
	1	scanner option is installed.

1

1-1		
Purpose Operation test/check		
Function	ion Used to check the operation of the scanner unit and its	
(Purpose)	e) control circuit.	
Section	Optical (Image scanning)	
Item	Operation	

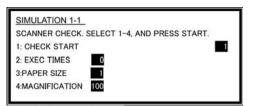
Operation/procedure

Enter the number of operations, and set the magnification ratio and the original size.

- 1. Select the desired item, and press the [START] key.
- 2. Enter the set value with the 10-key, and press the [START] key.

The scanner unit operates at the speed corresponding to the set value. The scan counter is displayed during execution.

Set magnification ratio	25% to 400% (1% increment) (Default 100%)
Document size	Varies depending on the destination.
Set number of times	1 to 999 (0: Continuous operation)



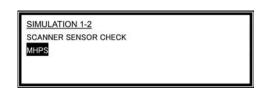
1-2

Purpose	Operation test/check	
Function	Used to check the operation of sensor and detector in	
(Purpose)	the scanning (read) section and the related circuit.	
Section	Optical (Image scanning)	
Item	Operation	

Operation/procedure

The status of sensors and detectors in the scanner section is displayed. The active sensors and detectors are highlighted.





2

2-1		
Purpose Operation test/check		
Function Used to check the operation of the SPF/RSPF unit and		
(Purpose)	Purpose) the related circuit.	
Section	SPF/RSPF	
Item	Operation	

Operation/procedure

Enter the number of operations, and set the magnification ratio and the original size.

1. Select the desired item, and press the [START] key.

2. Enter the set value with the 10-key, and press the START key/ICE-MANUAL.NET

The SPF/RSPF unit operates at the speed corresponding to the set value.

The scan counter is displayed during execution.

Set magnification ratio	50% to 200% (1% increment) (Default 100%)	
Document size	Varies depending on the destination.	
Duplex	Selectable only when RSPF is installed.	
Set number of times	1 to 999 (0: Continuous operation)	
Note: Executable only when the SPE/PSPE is installed		

Note: Executable only when the SPF/RSPF is installed.



2-2

-		
Purpose	Purpose Operation test/check	
Function	Used to check the operation of sensors and detectors	
(Purpose)	in the SPF/RSPF unit and the related circuit.	
Section	SPF/RSPF	
Item	Operation	

Operation/procedure

The operations of sensors and detectors in the SPF/RSPF section are displayed.

The active sensors and detectors are highlighted.

(For the original size, the detection result of the original size displayed on the copy menu is highlighted.)

EMPS	Original empty sensor	
DLS1	Original length sensor (Small)	
DLS2	Original length sensor (Large)	
FGOD	SPF/RSPF paper feed cover open/close sensor	
DFD	SPF/RSPF paper entry sensor	
RDD	SPF/RSPF original exit sensor	
OPCLS	Book sensor	
SWD_LEN	Original detection width sensor (Unit of 0.1mm. "Width x 10" is displayed. Example: For 300mm, 3000 is displayed.)	
SWD_A/D	Original detection width sensor A/D value	

SPF/RSPF width detection size (One of the following is displayed.)

A4/A3, LT/WLT, B5/B4, INV/LTR, A5/A4R, B5R, EXTRA, 8K/16K, 16KR

Note: Executable only when the SPF/RSPF is installed.

SPF SENSO	OR CHECK.		
MPS	DLS1	DLS2	FGOD
DFD	RDD	OPCLS	A3/A4
T/WLT	B5/B4	INV/LTR	A5/A4R
B5R	EXTRA	8K/16K	16KR
SWD_LEN: 3	3000		
SWD_A/D:	760		

2-3

Purpose	Operation test/check	
Function	Used to check the operation of the loads in the SPF/	
(Purpose)	RSPF unit and the control circuits.	
Section	SPF/RSPF	
Item	Operation	

Operation/procedure

Select the load to be checked with the 10-key, and press the [START] key.

The motor for 10sec, the solenoid ON for 500msec, OFF for 500msec. (20 times)

	Item	Content
1	DTM-F	SPF/RSPF motor forward rotation
2	DTM-R	SPF/RSPF motor reverse rotation
3	DFCL	SPF/RSPF paper feed clutch
4	CLH	SPF/RSPF PS clutch
5	GSOL	Document exit gate solenoid
6	RSOL	Document exit pressure solenoid
Note: Executable only when the SPF/RSPF is installed		

SIMULATION 2-3

SINOLATI	014 2-0			
SPF LOAD	TEST. SELE	ECT 1-6, A	ND PRESS ST	ART.
1:DTM-F	2:DTM-R	3:DFCL	4:CLH	2
5:GSOL	6:RSOL			

3

3-2		
Purpose Operation test/check		
Function	ction Used to check the operation of sensor and detector in	
(Purpose)	urpose) the finisher and the related circuit.	
Section	ction Finisher	
Item	Operation	

Operation/procedure

Used to display the operations of sensors and detectors in the finisher section.

The active sensors and detectors are highlighted.

	0 0
INPD	Finisher paper entry sensor
FWPS	Paper width sensor
JGHP1	Side guide plate HP sensor
JGHP2	Rear edge plate HP sensor
JGPD	Tray paper empty sensor
T10D	1st tray exit sensor
T1PF	1st tray paper full sensor
PGOP	JAM processing PG open/close detection sensor
T2OD	2nd tray exit sensor
OFHP	Offset HP sensor
T2UP	Tray position sensor (upper)
T2DN	Tray position sensor (lower)
JGDSW	Tray jam processing interlock
EVRE	Lift-up drive control sensor
STHP	Staple HP sensor
READY	Self priming sensor
LSTS	Staple empty sensor
NCTS	Cartridge empty sensor
STND	Staple supply cover open/close sensor
T2PUD	2nd tray upper surface sensor

Note: Executable only when the finisher is installed.

SIMULATION 3-2 FINISHER SENSOR CHECK							
INPD	FWPS	JGHP1	JGHP2	JGPD	T10D	T1PF	
PGOP	T2OD	OFHP	T2UP	T2DN	JGDS	W EVRE	
STHP	READY	LSTS	NCTS	STND	T2PU	D	

3-3	
Purpose	Operation test/check
Function	Used to check the operation of the load in the finisher
(Purpose)	and the control circuit.
Section	Finisher
Item	Operation

Operation/procedure

Select the load to be checked with the 10-key, and press the [START] key.

The finisher main motor operates for 10sec, the staple motor 5 times, the tray lift-up motor one reciprocating operation, other motors max. 20 reciprocating operations from the home position, the solenoid repeats 500msec ON and 500msec OFF 20 times.

The staple operation motor operates only when there is no cartridge installed.

ltem	Content
JGM1	Side guide plate drive motor
JGM2	Rear edge plate drive motor
FM-600	Finisher main motor (600dpi)
FM-1200	Finisher main motor (1200dpi)
EVM	Tray lift-up motor
OFM	Tray offset motor
STM	Staple operation motor
OGSLR	Transport selection gate solenoid (R)
OGSLL	Transport selection gate solenoid (L)
JGSL1	Rear edge plate drive solenoid
JGSL2	Upper alignment plate drive solenoid
SHTSL	Shutter drive solenoid
T2SCL	Paper exit roller clutch
STGSL	Paper holding solenoid
	JGM2 FM-600 FM-1200 EVM OFM STM OGSLR OGSLL JGSL1 JGSL2 SHTSL T2SCL

Note: Executable only when the finisher is installed.

SIMULATION 3-3 FINISHER LOAD TEST. SELECT 1-14, AND PRESS START.					
1:JGM1	2:JGM2	3:FM-600	4:FM-1200		
5:EVM	6:OFM	7:STM	8:OGSLR		
9:OGSLL	10:JGSL1	11:JGSL2	12:SHTSL		
13:T2SCL	14:STGSL				

3-6

5-0	
Purpose	Adjustment
Function Used to adjust the alignment position (side regulation	
(Purpose) plate, rear edge regulation plate) for each paper size.	
	Shifts to the specified paper size position.
Section Finisher	
Item	Operation

Operation/procedure

After the paper size is set, the side guide plate and the rear guide plate are set.

- 1. Enter the desired item with the 10-key, and press the [START] key.
- 2. Enter the adjustment value with the 10-key, and press the [START] key.

	Item	Content	Setting range	Default
1	1 PAPER SIZE Paper size		1-12	A4
		(1:A3, 2:A4, 3:B4, 4:B5,		
		5:A4R, 6:WLT, 7:LT,		
		8:LG, 9:FC, 10:LTR,		
		11:8K, 12:16K)		
2	JOGGER POS X	Side guide plate	1-99	50
3	JOGGER POS Y	Rear edge guide plate		

There are 6 adjustment values for the side guide plate, and 12 for the rear guide plate. The adjustment position is determined from the table below according to the paper size.

Paper size	Side guide plate adjustment value number	Adjustment value number of the rear edge guide plate
A3	1	2
A4	1	9
B4	3	3
F-MANB5/AT	NET 3	10
	A3 A4 B4	Paper sizeadjustment value numberA31A41B43

Paper size	Side guide plate adjustment value number	Adjustment value number of the rear edge guide plate
A4R	5	6
WLT	2	1
LT	2	8
LG	4	4
FC	4	5
LTR	4	7
8K	6	11
16K	6	12

Note: Executable only when the finisher is installed.

SIMULATION 3-6						
FINISHER	JOGGER	ADJUSTMENT.	SELECT	1-3,	AND	
PRESS ST	ART.					
1:PAPER SIZE					2	
2:JOGGER POS X						
3.IOGGER	POS Y					

3-7

Purpose	Adjustment
Function (Purpose)	Used to adjust the offset tray operations.
Section	Finisher
Item	Operation

Operation/procedure

- 1. Touch the operation item to be set.
- 2. Enter the set value with the 10-key.

	Item	Content	Installation range	Default
1	PAPER PUSH	Paper holder	34-66	50
	TMG	descending timing		
		in non-staple		
		Used to adjust the de	0	0
		the paper holder leve	•	0
		operation after paper		
		operation. (The paper prevents against paper		or top
		surface detection and		•
2	PAPER OUT	Tray descending	0-12	1
-	DOWN	distance after non-	0 12	
	20111	staple paper exit		
		Used to adjust the off	set tray desc	ending
		distance after non-staple paper exit.		
		The descending distance is the relative		
		distance from the nor	i-staple stand	lby
		position.		
3	STAPLE UP	Tray lift distance	0-12	6
		before staple paper		
		exit	atandhu naa	tion in
		The height of the tray stapling is changed for		
		to improve stacking c		
		(The relative distance		
		tray standby position	•	
		set.)		-
4	STAPLE DOWN	Tray descending	0-12	6
		distance after staple		
		paper exit		
		Used to adjust the offset tray descending		
		distance after staple paper exit.		
		The descending distance is the relative		
		distance from the non-staple standby position.		
L		position.		

	Item		Content	Installation range	Default
5	OFFSET INI.POS	Of	set tray shift	0-99	13
		po	sition adjustment		
		Us	ed to shift the offse	t tray to the s	hipment
		po	sition or the disass	embly positio	n.
			e offset tray is sh	ifted to the s	specified
		CO	unter position.		
		(In	the case of 0 - 94	(Shipment po	osition)
		1)	Initialize the offse	t tray normall	у.
		2)	The tray descen position + 1 pulse	•	arameter
		3)	The tray lifts up to eter position.	the specified	d param-
		(Di	sassembly positior	n: 94 - 99)	
		1)	The tray descend	s to the botto	m.
		t F	f there is some pa he tray cannot des position. Check to i paper in the tray be	scend to the s nsure that the	specified ere is no
Note	e: Executable only wh		paper in the tray be ne finisher is install		on.

START.			
1: PAPER PUSH TMG	50		50
2: PAPER OUT DOWN	1		1/1
3: STAPLE UP	6		T
4: STAPLE DOWN	6		_
5: OFFSET INLPOS	13		

3-11	
Purpose	Operation test/check
Function	Used to check the shifter operation.
(Purpose)	Reciprocating operations are continuously performed or the home position is checked. (The shifter is shifted to the home position or moved in one way by the specified steps.)
Item	Operation

Operation/procedure

Select item "1," and press the [START] key.

The shifter is reciprocated continuously at the specified interval.

	Item	Content
1	F-R	Reciprocating operation
2	HP CHECK	Home position check

[Selection 2]

- 1. Select item "2," and press the [START] key.
- 2. Move the shifter to the home position or in one way by the specified steps with the following keys.

[*] key	Shifts the position toward R side by the specified steps.
[0 key	Shifts the position toward HP side by the specified steps.
[#] key	Shifts to F.
SFTHP	Shifter home position (At detection, highlighted)

SIMULATION 3-11 SHIFTER CHECK. SELECT 1-2, AND PRESS START. 1:F-R 2:HP CHECK

4

4-2	
Purpose	Operation test/check
Function	Used to check the operation of sensor and detector in
(Purpose)	the option cassette and the related circuit.
Section	Paper feed
Item	Operation
Onevetien/m	

Operation/procedure

The operating states of the sensor and the detector are displayed. (Only the installed option cassettes are displayed. For the standard tray, use SIM 30-2.)

The active sensors and detectors	are highlighted.
----------------------------------	------------------

PED2	2nd cassette paper empty sensor
LUD2	2nd cassette paper upper limit detection sensor
PFD2	2nd cassette paper pass sensor
CD2	2nd cassette empty sensor
PED3	3rd cassette paper empty sensor
LUD3	3rd cassette paper upper limit detection sensor
PFD3	3rd cassette paper pass sensor
CD3	3rd cassette empty sensor
PED4	4th cassette paper empty sensor
LUD4	4th cassette paper upper limit detection sensor
PFD4	4th cassette paper pass sensor
CD4	4th cassette empty sensor
DSWR2	2nd cassette right door detection sensor
DSWR3	3rd cassette right door detection sensor
DSWR4	4th cassette right door detection sensor

Note: Execution is possible only when the option cassette is installed.

SIMUL	ATION	4-2		CHECK PED3 DSWR2			
OPTIO	N CASS	SETTE S	ENSOR	CHECK			
PED2	LUD2	PFD2	CD2	PED3	LUD3	PFD3	CD3
PED4	LUD4	PFD4	CD4	DSWR	DSWR	3 DSWR	4

4-3	
Purpose	Operation test/check
Function	Used to check the operation of the load in the option
(Purpose)	tray and the control circuit.
Section	Paper feed
Item	Operation

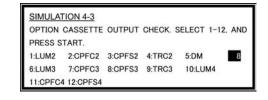
Operation/procedure

Select the load to be checked with the 10-key, and press the [START] key.

The motor for 10sec, the solenoid ON for 500msec, OFF for 500msec. The lift-up motor operates only when the tray is opened. (20 times)

	Item	Content
1	LUM2	2nd cassette lift-up motor
2	CPFC2	2nd cassette pick-up solenoid
3	CPFS2	2nd cassette paper feed clutch
4	TRC2	2nd cassette transport roller clutch
5	DM	2nd cassette paper transport motor (3rd cassette
		paper transport motor)
6	LUM3	3rd cassette lift-up motor
7	CPFC3	3rd cassette pick-up solenoid
8	CPFS3	3rd cassette paper feed clutch
9	TRC3	3rd cassette transport roller clutch
10	LUM4	4th cassette lift-up motor
11	CPFC4	4th cassette pick-up solenoid
12	CPFS4	4th cassette paper feed clutch

Note: Execution is possible only when the option cassette is installed.



-5
ю

5-1		
Purpose	Operation test/check	
Function	Function Used to check the operation of the display (LED), LCD	
(Purpose)	(Purpose) in the operation panel, and control circuit.	
Section	Operation (screen/operation)	
Item Operation		
Operation/procedure		

Operation/procedure

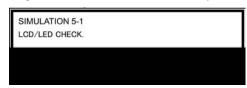
The LCD is displayed as follows. (All LED's are ON.)

With the upper half highlighted and the lower half normally displayed, contrast changes "Standard \rightarrow MAX \rightarrow MIN." in every 2sec.



(6 sec later)

With the upper half normally displayed and the lower half highlighted, contrast changes "Standard \rightarrow MAX \rightarrow MIN." in every 2sec.



* When returning to the sub menu selection menu, the display of the standard contrast is displayed for an instant.

5-2		
Purpose Operation test/check		
Function	tion Used to check the operation of the heater lamp and the	
(Purpose)	(Purpose) control circuit.	
Section	Fusing	
Item	Operation	
A		

Operation/procedure

1. Select the lamp to be checked with the 10-key, and press the [START] key.

ON/OFF operation of the heater lamp is repeated 5 times in an interval of 100ms/900ms.

When completing the operation, the cooling fan is rotated at a low speed.

Item Content

	Item	Content	
1	HL1	Heater lamp 1 (Main) operation	
2	HL2	Heater lamp 2 (Sub) operation	

SIMULATION5-2 HEATER LAMP TEST. SELECT 1-2, AND PRESS START. 1:HR1 2:HR2

5-3

Purpose	Operation test/check	
Function	Used to check the operation of the copy lamp and the	
(Purpose)	control circuit.	
Section	Optical (Image scanning)	
Item	Operation	
Operation/presedure		

Operation/procedure

When the [START] key is pressed, the copy lamp is lighted for 10sec.

SIMULATION 5-3

COPY LAMP TEST. PRESS START.

6

6-1		
Purpose	Operation test/check	
Function	on Used to check the operation of the loads (clutches and	
(Purpose)	solenoids) in the paper transport system and the	
	control circuit.	
Section	on Paper transport (Discharge/Switchback/Transport)	
Item	tem Operation	

Operation/procedure

1. Select the load to be checked with the 10-key, and press the [START] key.

The motor for 10sec, the solenoid ON for 500msec, OFF for 500msec. (20 times)

When the [CUSTOM SETTINGS] is pressed, the operation is interrupted.

The lift-up motor operates only when the tray is opened.

	Item	Content
1	LUM1	1st cassette lift-up motor
2	CPFC1	1st cassette pick-up solenoid
3	CPFS1	1st cassette paper feed clutch
4	MPFS	Manual feed pick-up solenoid
5	RRC	Resist roller clutch
6	PSPS	Separation pawl solenoid
7	OGS	Paper exit gate switching solenoid
8	LUM2	2nd cassette lift-up motor
9	CPFC2	2nd cassette pick-up solenoid
10	CPFS2	2nd cassette paper feed clutch
11	TRC2	2nd cassette transport roller clutch
12	LUM3	3rd cassette lift-up motor
13	CPFC3	3rd cassette pick-up solenoid
14	CPFS3	3rd cassette paper feed clutch
15	TRC3	3rd cassette transport roller clutch
16	LUM4	4th cassette lift-up motor
17	CPFC4	4th cassette pick-up solenoid
18	CPFS4	4th cassette paper feed clutch

The lift-up motor operates only when the tray is opened.

SIMULATION 6-1				
FEED OUT	PUT CHECK	SELECT 1	-18, AND PF	RESS START.
1:LUM1	2:CPFC1	3:CPFS1	4:MPFS	5:RRC 8
6:PSPS	7:OGS	8:LUM2	9:CPFC2	10:CPFS2
11:TRC2	12:LUM3	13:CPFC3	14:CPFS3	15:TRC3
16:LUM4	17:CPFC4	18:CPFS4		

6-2

Purpose	Operation test/check	
Function (Purpose)	Used to check the operation of each fan motor and its control circuit.	
Section	Others	
Item	Operation	

Operation/procedure

Select the load to be checked with the 10-key, and press the [START] key.

The selected load is operated for 10sec.

	Item	Content
1	VFM	Only the fusing fan operates
2	DCFM&DCFM2	Power cooling fan, power cooling fan 2 operations
3	VFM&DCFM&DCFM2	Fusing fan, power cooling fan, and power cooling fan 2 are operated at the same time.

SIMULATION 6-2	
FAN MOTOR CHECK. SELECT 1-3, AND PRESS STA	RT.
1:VFM	2
2:DCFM&DCFM2	
3:VFM&DCFM&DCFM2	

7

7-1	
Purpose	Setting/Operation test/check
Function (Purpose)	Used to set the aging operation conditions.
Item	Operation
Operation/procedure	

Operation/procedure

- 1. Select the load to be set with the 10-key.
- 2. Press the [START] key.

When selected without setup, the selected value is registered and highlighted. When selected with previous setup, the previous setup is canceled and it is displayed normally.

Press [CA] key, and the simulation will be terminated and the machine goes into the aging standby mode with the set content.

This setting is canceled by power OFF.

	Item	Content
1	AGING	Aging enable/disable setting
2	MISFEED	Jam detection enable/disable setting
3	FUSING	Fusing operation enable/disable setting
		The fusing temperature is not controlled. The
		heater is not turned ON.
4	INTERVL	Intermittent setting (Valid only when set to AGING.)
5	WARMUP	Warm-up save setting
		The machine goes into the ready state only by
		shading, disregarding fusing and process control.
		After going into the ready state, normal control is
		performed.
6	DV CHK.	Developing unit detection enable/disable setting

6 DV CHK. Developing unit detection enable/disable setting

*1: When the machine exits from the fusing ignoring state, the roller may be cooled down. Therefore, reset the machine to warm up again.

When, therefore, the simulation is canceled by pressing the [CA] key or when the copy mode display is shifted to the initial menu display in the simulation mode of one page copy, the machine is reset.

Note: In SIM 7-1, pressing [CA] key terminates the simulation and the machine enters the aging mode without resetting. Therefore, to perform "4. Intermittent setup," the intermittent cycle must be set

Reset is not performed when the machine enters the aging mode.

SIMULATIC	N 7-1			
AGING TEST	T SETTING. S	ELECT 1-6,	AND PRESS	START.
1:AGING	2:MISFEED	3:FUSING	4:INTERVL	2
5:WARMUP	6:DV CHK.			

7-6

Purpose	Setting/Operation test/check
Function (Purpose)	Used to set the cycle of intermittent aging.
Item	Operation

Operation/procedure

- 1. Enter the interval aging cycle time (sec) with the 10-key pad. Refer to SIM 7-1.
- 2. Press the [START] key.

When the [START] key is pressed in aging, copying is performed continuously. This simulation is used to set the time interval between copy operations in the unit of second.

This setting is valid when SIM 7-1 (Intermittent setting) is enabled.

Setting range	1-255
Default	3

SIMULATION 7-6 INTERVAL AGING CYCLE SETUP. INPUT TIME 1-255, AND PRESS START.

7-8

10	
Purpose	Setting/Operation test/check
Function	Used to set the display of the warm-up time.
(Purpose)	
Item	Operation

Operation/procedure

1. Warm-up starts by the cover open/close.

(Can be performed repeatedly by open/close of the cover.)

- The warm-up time is counted up and displayed in the unit of sec. If the [CA] key is pressed at this time, count-up is interrupted to terminate the simulation. (However, warm-up is continued.)
- After completion of warming up, "WARM UP COMPLETED" is displayed and the control returns to the initial screen.

SIMULATION 7-8

WARM UP TIME DISPLAY. PLEASE COVER OPEN AND CLOSE.

8

8-1	
Purpose	Adjustment/Operation test/check
Function (Purpose)	Used to check and adjust the operation of the developing bias voltage in each copy mode and the
Section	control circuit. Image process (Photoconductor/Developing/Transfer/ Cleaning)
	Developer/Toner hopper

Operation/procedure

- 1. Touch the exposure mode to be changed. The current set value is displayed.
- 2. Enter the set value with the 10-key.
- 3. Press the [START] key.

Output is made with the entered value, and the display returns to the original state.

	Item	Content	Installation range	Default
1	AE	AE (*)	200-550	400 (-400V)
2	TEXT	Character		450 (–450V)
3	TEXT/PHOTO	Character/Photo		450 (–450V)
4	PHOTO	Photo		450 (–450V)
5	SUPER/PHOTO	Super photo		400 (-400V)
6	TONER SAVE	Toner save		376 (-376V)

(*) Linked with the destinations of SIM 26-6.

Linked with the auto exposure mode of SIM 46-19-1.

The minimum increment is 2V.

The result of (Set value - 199) / 2 is stored in the EEPROM.

When reading a value from the EEPROM, the value of (EEP value *2) + 200 is used as the set value.

Therefore, the set value entered must be an even number. If an odd number is entered the entered odd number + 1 is displayed after pressing [START] key.

DV BIAS COPY S	ETTING.	INPUT	VALUE	200-550,	AND	PRES
START.						
1: AE	400					40
2: TEXT	450					1/1
3: TEXT/PHOTO	450					(t
4: PHOTO	450					
5: SUPER/PHOTO	400					
6: TONER SAVE	376					ОК

8-2	
Purpose	Adjustment/Operation test/check
Function (Purpose)	Used to check and adjust the operation of the main charger grid voltage (high mode) in each copy mode and the control circuit.
Section	Image process (Photoconductor/Developing/Transfer/ Cleaning) Photo conductor

Operation/procedure

- 1. Touch the exposure mode to be changed.
 - The current set value is displayed.
- 2. Enter the set value with the 10-key.
- 3. Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

		Item	Content	Setting range	Default
-	1	AE	AE (*)	1-8	3 (–530V)
2	2	TEXT	Character		5 (–580V)
3	3	TEXT/PHOTO	Character/Photo		5 (–580V)
4	4	PHOTO	Photo		5 (–580V)
Ę	5	SUPER/PHOTO	Super photo		3 (–530V)
6	ô	TONER SAVE	Toner save		2 (-505V)

Min. unit: -25V increment

(*) Linked with the destinations of SIM 26-6.

Linked with the auto exposure mode of SIM 46-19-1.

Jeveloping/ I ransfer/			-	
	NO.	Set value	Grid High	Grid Low
	1	480	-480V	-350V
	2	505	-505V	-375V
WWW SERVI	CE-MAN	1/4 530 NE	7 –530V	-400V

NO.	Set value	Grid High	Grid Low
4	555	–555V	-425V
5	580	–580V	-450V
6	605	-605V	-475V
7	630	-630V	-500V
8	655	-655V	-525V

- *1. The negative value of the set value corresponds to the grid high output voltage.
- *2. The set values can be selected from the above 8 patterns only.
- *3. The selected pattern determines the grid high voltage and the grid low voltage.

If, for example, the grid high voltage is set to -480V (pattern 1), the grid low voltage is -350V.

SIMULATION 8-2 MHV(H) COPY SETT	NG. INPUT VALUE 1-8,	AND PRESS START.
1: AE	3	3
2: TEXT	5	
3: TEXT/PHOTO	5	1/1
4: PHOTO	5	T
5: SUPER/PHOTO	3	
6: TONER SAVE	2	<u>і</u> ок

8-3		
Purpose	Adjustment/Operation test/check	
Function	Used to check and adjust the operation of the main	
(Purpose)	charger grid voltage (low mode) in each copy mode	
	and the control circuit.	
Section	Image process (Photoconductor/Developing/Transfer/	
	Cleaning)	
	Photo conductor	

Operation/procedure

- 1. Touch the exposure mode to be changed. The current set value is highlighted.
- 2. Enter the set value with the 10-key.
- 3. Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

	Item Content		Setting range	Default
1	AE	AE (*)	1-8	3 (–400V)
2	TEXT	Character		5 (–450V)
3	TEXT/PHOTO	Character/Photo		5 (–450V)
4	PHOTO	Photo		5 (–450V)
5	SUPER/PHOTO	Super photo		3 (–400V)
6	TONER SAVE	Toner save		2 (–375V)

Min. unit: -25V increment

(*) Linked with the destinations of SIM 26-6.

Linked with the auto exposure mode of SIM 46-19-1.

NO.	Set value	Grid High	Grid Low
1	480	-480V	-350V
2	505	–505V	–375V
3	530	–530V	-400V
4	555	–555V	-425V
5	580	–580V	-450V
6	605	-605V	-475V
7	630	-630V	-500V
8	655	-655V	–525V

*1. The negative value of the set value corresponds to the grid high output voltage.

*2. The set values can be selected from the above 8 patterns only.

*3. The selected pattern determines the grid high voltage and the grid low voltage.

If, for example, the grid high voltage is set to -480V (pattern 1), the grid low voltage is -350V.

1: AE	3	
2: TEXT	5	0
3: TEXT/PHOTO	5	
4: PHOTO	5	
5: SUPER/PHOTO	3	
6: TONER SAVE	2	

8-10	
Purpose	Adjustment/Operation test/check
Function (Purpose)	Used to check and adjust the operation of the developing bias voltage in each printer mode and the control circuit.
Section	Image process (Photoconductor/Developing/Transfer/ Cleaning) Developer/Toner hopper

Operation/procedure

- 1. Touch the exposure mode to be changed. The current set value is displayed.
- 2. Enter the set value with the 10-key.
- 3. Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

	ltem	Content	Installation range	Default
1	1 DENS1(600) Density 1 (600dpi)		200-550	400 (-400V)
2	DENS2(600)	Density 2 (600dpi)		450 (-450V)
3	DENS3(600)	Density 3 (600dpi)		450 (-450V)
4	DENS4(600)	Density 4 (600dpi)		450 (-450V)
5	DENS5(600)	Density 5 (600dpi)		500 (-500V)
6	TS(600)	Toner save (600dpi)		350 (-350V)
7	DENS1(1200)	Density 1 (1200dpi)		300 (-300V)
8	DENS2(1200)	Density 2 (1200dpi)		350 (-350V)
9	DENS3(1200)	Density 3 (1200dpi)		376 (-376V)
10	DENS4(1200)	Density 4 (1200dpi)		426 (-426V)
11	DENS5(1200)	Density 5 (1200dpi)		500 (-500V)

The minimum increment is 2V.

The result of (Set value - 199) / 2 is stored in the EEPROM.

When reading a value from the EEPROM, the value of (EEP value *2) + 200 is used as the set value.

Therefore, the set value entered must be an even number. If an odd number is entered the entered odd number + 1 is displayed after pressing [START] key.

DV BIAS PRINTER START.	R SETTING.	INPUT	VALUE 200-550	, AND	PRES
1: DENS1(600)	400	2: DENS	S2(600)	450	400
3: DENS3(600)	450	4: DENS	S4(600)	450	1/1
5: DENS5(600)	500	6: TS	(600)	350	1
7: DENS1(1200)	300	8: DEN	S2(1200)	350	_
9: DENS3(1200)	376	10: DEM	NS4(1200)	426	
11: DENS5(1200)	500				OF

8-11

Purpose	Adjustment/Operation test/check			
Function	Used to check and adjust the operation of the main			
(Purpose)	charger grid voltage (high mode) in each printer mode			
	and the control circuit.			
Section	Image process (Photoconductor/Developing/Transfer/			
	Cleaning)			
	Photo conductor			

Operation/procedure

- 1. Touch the exposure mode to be changed. The current set value is highlighted.
- 2. Enter the set value with the 10-key.
- 3. Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

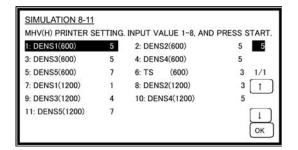
Item		Content	Installation range	Default
1	DENS1(600)	Density 1 (600dpi)	1-8	5 (–580V)
2	DENS2(600)	Density 2 (600dpi)		5 (–580V)
3	DENS3(600)	Density 3 (600dpi)		5 (–580V)
4	DENS4(600)	Density 4 (600dpi)		5 (–580V)
5	DENS5(600)	Density 5 (600dpi)		7 (–630V)
6	TS(600)	Toner save (600dpi)		3 (–530V)
7	DENS1(1200)	Density 1 (1200dpi)		1 (-480V)
8	DENS2(1200)	Density 2 (1200dpi)		3 (–530V)
9	DENS3(1200)	Density 3 (1200dpi)		4 (–555V)
10	DENS4(1200)	Density 4 (1200dpi)		5 (–580V)
11	DENS5(1200)	Density 5 (1200dpi)		7 (–630V)

Min. unit: 25V increment

NO.	Set value	Grid High	Grid Low
1	480	-480V	–350V
2	505	–505V	–375V
3	530	–530V	-400V
4	555	–555V	-425V
5	580	–580V	-450V
6	605	-605V	-475V
7	630	-630V	-500V
8	655	-655V	-525V

- *1. The negative value of the set value corresponds to the grid high output voltage.
- *2. The set values can be selected from the above 8 patterns only.
- *3. The selected pattern determines the grid high voltage and the grid low voltage.

If, for example, the grid high voltage is set to -480V (pattern 1), the grid low voltage is -350V.



8-12				
Purpose	Adjustment/Operation test/check			
Function	unction Used to check and adjust the operation of the main			
(Purpose)	charger grid voltage (low mode) in each printer mode			
	and the control circuit.			
Section	Image process (Photoconductor/Developing/Transfer/			
	Cleaning)			
	Photo conductor WWW.SERVI			

Operation/procedure

- 1. Touch the exposure mode to be changed. The current set value is highlighted.
- 2. Enter the set value with the 10-key.
- 3. Press the [START] key.

Output is made with the entered value for 30sec, and the display returns to the original state.

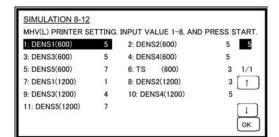
Item		Content	Installation range	Default
1	DENS1(600)	Density 1 (600dpi)	1-8	5 (–450V)
2	DENS2(600)	Density 2 (600dpi)		5 (–450V)
3	DENS3(600)	Density 3 (600dpi)		5 (–450V)
4	DENS4(600)	Density 4 (600dpi)		5 (–450V)
5	DENS5(600)	Density 5 (600dpi)		7 (–500V)
6	TS(600)	Toner save (600dpi)		3 (–400V)
7	DENS1(1200)	Density 1 (1200dpi)		1 (–350V)
8	DENS2(1200)	Density 2 (1200dpi)		3 (–400V)
9	DENS3(1200)	Density 3 (1200dpi)		4 (–425V)
10	DENS4(1200)	Density 4 (1200dpi)		5 (–450V)
11	DENS5(1200)	Density 5 (1200dpi)		7 (–500V)

Min. unit: 25V increment

NO.	Set value	Grid High	Grid Low
1	480	-480V	-350V
2	505	-505V	–375V
3	530	–530V	-400V
4	555	–555V	-425V
5	580	–580V	-450V
6	605	-605V	-475V
7	630	-630V	-500V
8	655	-655V	-525V

- *1. The negative value of the set value corresponds to the grid high output voltage.
- *2. The set values can be selected from the above 8 patterns only.
- *3. The selected pattern determines the grid high voltage and the grid low voltage.

If, for example, the grid high voltage is set to -480V (pattern 1), the grid low voltage is -350V.



8-13		
Purpose	Adjustment/Operation test/check	
Function	Used to check and adjust the operation of the	
(Purpose)	developing bias voltage in FAX mode and the control	
	circuit.	
Section	Image process (Photoconductor/Developing/Transfer/	
	Cleaning)	
	Developer/Toner hopper	
Operation/p	rocedure	

Operation/procedure

- 1. Enter the set value with the 10-key.
- 2. Press the [START] key.

Output is made with the entered value for 30sec. and the display returns to the original state.

	Setting range	200-550
	Default	426
CE-MANUAL.NET		

______ AR-M236/M276/M237/M277 SIMULATION 8 - 13 The minimum increment is 2V.

The result of (Set value - 199) / 2 is stored in the EEPROM.

When reading a value from the EEPROM, the value of (EEP value *2) + 200 is used as the set value.

Therefore, the set value entered must be an even number. If an odd number is entered the entered odd number + 1 is displayed after pressing [START] key.

SIMULATION 8-13
DV BIAS FAX SETTING. INPUT VALUE 200-550, AND PRESS
START. 426

8-14

Purpose	Adjustment/Operation test/check	
Function	Used to check and adjust the operation of the main	
(Purpose)	charger grid voltage (high mode) in FAX mode and the	
	control circuit.	
Section	Image process (Photoconductor/Developing/Transfer/	
	Cleaning)	
	Photo conductor	

Operation/procedure

- 1. Enter the set value with the 10-key.
- 2. Press the [START] key.

Output is made with the entered value for 30sec. and the display returns to the original state.

Setting range		1-8	3		
Default		5 (480-650)		
NO.	Set value		Grid High	n Grid Low	1
1	480		-480V	–350V	
2	505		-505V	–375V	
3	530		-530V	-400V	
4	555		-555V	-425V	
5	580		-580V	-450V	
6	605		-605V	-475V	
7	630		-630V	-500V	
8	655		-655V	-525V	

Min. unit: 25V increment

- *1. The negative value of the set value corresponds to the grid high output voltage.
- *2. The set values can be selected from the above 8 patterns only.
- *3. The selected pattern determines the grid high voltage and the grid low voltage.

If, for example, the grid high voltage is set to -480V (pattern 1), the grid low voltage is -350V.

SIMULA	TION	8-14					
MHV(H)	FAX	SETTING.	INPUT	VALUE	1-8,	AND	PRESS
START.							
							5

8-15	
Purpose	Adjustment/Operation test/check
Function	Used to check and adjust the operation of the main
(Purpose)	charger grid voltage (low mode) in FAX mode and the
	control circuit.
Section	Image process (Photoconductor/Developing/Transfer,
	Cleaning)
	Photo conductor

Operation/procedure

1. Enter the set value with the 10-key.

2. Press the [START] key.

Output is made with the entered value for 30sec. and the display returns to the original state.

Setting range	1-8	
Default	5	

NO.	Set value	Grid High	Grid Low
1	480	-480V	-350V
2	505	–505V	–375V
3	530	–530V	-400V
4	555	–555V	-425V
5	580	–580V	-450V
6	605	-605V	-475V
7	630	-630V	-500V
8	655	-655V	-525V

Min. unit: 25V increment

- *1. The negative value of the set value corresponds to the grid high output voltage.
- *2. The set values can be selected from the above 8 patterns only.
- *3. The selected pattern determines the grid high voltage and the grid low voltage.

If, for example, the grid high voltage is set to -480V (pattern 1), the grid low voltage is -350V.

SIMULATION 8-15 MHV(L) FAX SETTING. INPUT VALUE 1-8, AND PRESS START.

9

9-1	
Purpose	Operation test/check
Function	Used to check and adjust the operation of the load
(Purpose)	(motor) in the duplex section and the control circuit.
Section	Duplex
Item	Operation

Operation/procedure

- 1. Select the operation mode with the 10-key.
- 2. Press the [START] key.

The operation is performed for 30sec, and the display returns to the original state.

	Item	Content
1	DMF600	Duplex motor/Duplex 2 motor forward rotation (600dpi)
2	DMF1200	Duplex motor/Duplex 2 motor forward rotation (1200dpi)
3	DMR600	Duplex motor/Duplex 2 motor reverse rotation (600dpi)
4	DMR1200	Duplex motor/Duplex 2 motor reverse rotation (1200dpi)

SIMULATIO	<u>N 9-1</u>		
DUPLEX MO	TOR CHECK.	SELECT 1-4, AND PR	ESS START.
1:DMF600	2:DMF1200	3:DMR600	2
4:DMR1200			

	9-4	
	Purpose	Operation test/check
	Function (Purpose)	Duplex motor RPM setting
	Section	Duplex
WWW.SERVICE-N	Menulal.NET	Operation

Operation/procedure

Enter the set value with the 10-key.

When the duplex motor setting is made, the duplex 2motor is also set accordingly.

Setting range	1-13
Default	3

SIMULATION 9-4	
DUPLEX MOTOR SPEED SETTING. INPUT VALUE	1-13, AND
PRESS START.	
	3

9-5

Purpose	Adjustment
Function	Used to adjust the timing of switching from normal
	rotation to reverse rotation or from reverse rotation to normal rotation of the duplex motor.

Operation/procedure

- 1. Touch the item to set.
- 2. Enter the set value with the 10-key, and press the [START] key.

Item		Installation range	Default
1	600dpi	18-76	18
2	1200dpi		50

SIMULATION 9-5 DUPLEX MOTOR SW BACK TIME SETTING. INPUT VALUE 18 AND PRESS START.	-76,
1: 600dpi 18 2: 1200dpi 50	I8 1/1 1 ↓ ок

10

10-0		
Purpose	Operation test/check	
Function	Used to check the operation of the toner motor and its	
(Purpose)	control circuit.	
Section Image process (Photoconductor/Developing/Tran		
Cleaning)		
Developer/Toner hopper		
Item	Operation	

Operation/procedure

Press the [START] key and operate the toner motor for 30 sec.

SIMULATION 10	
TONER MOTOR ACTIVATION. PRESS START.	



14-0		
Purpose	Clear/Cancel (Trouble etc.)	
Function	Used to cancel excluding the self-diag U2/PF troubles.	
(Purpose)		
Item	Trouble Error	
Operation/pr	ocedure	

- 1. Press the [START] key.
- 2. When "1: YES" is selected, troubles other than U2 and PF are canceled. (When "2: NO" is selected, the simulation is canceled.)

SIMULATI	<u>DN 14</u>			
	CANCELLATION(WITHOUT	U2,	PF).	PRESS
START.				

16

16-0

Purpose	Clear/Cancel (Trouble etc.)	
Function (Purpose)	Used to cancel the self-diag U2 trouble.	
Item	Trouble Error	

Operation/procedure

- 1. Press the [START] key.
- 2. When "1: YES" is selected, U2 trouble is canceled. (When "2: NO" is selected, the simulation is canceled.)

SIMULATION 16 U2 TROUBLE CANCELLATION. PRESS START.

17

17-0			
Purpose	Cancel (Trouble, etc)		
Function (Purpose)	Used to cancel the self diag "PF" trouble.		
Item	Trouble	Error	

Operation/Procedure

- 1. Press the [START] key.
- 2. When "1: YES" is selected, PF trouble is canceled. (When "2: NO" is selected, the simulation is canceled.)

SIMULATION 17	
PF TROUBLE CANCELLATION. PRESS START.	

21

	21-1		
	Purpose	Setting	
	Function (Purpose)	Used to set the maintenance cycle.	
WWW.SERVICE-N	Ittem UAL.NET	Specifications	Counter

1	0-0

Operation/procedure

1. Enter the set value with the 10-key.

2	Press the		kov
∠.	FIESS LIE	ISTANT	nev.

Item	Content	
0	5K	
1	10K	
2	20K	
3	25K	
4	50K	
5	75K (Default)	
6	FREE	

SIMULATION 21-1 MAINTENANCE CYCLE SETUP. SELECT 0-6, AND PRESS START. 0:5K 5:1:10K 2:20K 3:25K 4:50K 5:75K 6:FREE



22-1	

Purpose	Adjustment/setting/operation data output/check (display/print)
Function	Used to check the counter value of each section.
(Purpose)	
Item	Counter

Operation/procedure

Each counter is displayed.

TOTAL	Total	
MAINTENANCE	Maintenance	
DEVE	Developer counter *1	
DRUM	Drum counter	
COPY	Copy counter	
PRINTER	Printer counter	
IMC	IMC counter	
DUPLEX	Duplex counter	
OTHERS	The other counters	
FAX SEND	FAX Send counter	
FAX RCV	FAX receive counter	
FAX OUTPUT	FAX print counter	

The counter display is in 7 digits.

SIMULATION 22-1					
COUNTER D	AIA	DISPLAY.			
TOTAL	:	nnnnnn	MAINTENANCE	:	nnnnnn
DEVE	:	nnnnnn	DRUM	:	nnnnnn
COPY	:	nnnnnn	PRINTER	:	nnnnnn
IMC	:	nnnnnn	DUPLEX	:	nnnnnn
OTHERS	:	nnnnnn	FAX SEND	:	nnnnnn
FAX RCV	:	nnnnnn	FAX OUTPUT	:	nnnnnn

22-2		
Purpose	Adjustment/setting/operation data output/check (display/print)	
Function (Purpose)	Used to check the total numbers of misfeed and troubles. (When the number of misfeed is considerably great, it is judged as necessary for repair. The misfeed rate is obtained by dividing this count value with the total counter value.)	
Item	Trouble	
Operation/procedure		

Each counter data are displayed

Each counter data are displayed.		
PAPER JA	M J	AM counter
SPF/RSPF	JAM S	PF/RSPF JAM counter
TROUBLE	Т	rouble counter

The counter display is in 7 digits.

SIMULATIO	ON 2	22-2	
JAM/TROU	BLE	COUNTER DATA DISPLAY.	
PAPER JAN	: N	nnnnnn	
SPF JAM		nnnnnn	
TROUBLE	:	nnnnnn	

22-3				
Purpose	Adjustment/setting/operation data output/check (display/print)			
Function (Purpose)	Used to check the misfeed positions and the number of misfeed at each position. (When the number of misfeed is considerably great, it can be judged as necessary for repair.)			
Item	Trouble	Mis-feed		

Operation/procedure

The misfeed history is displayed in the sequence of recentness by the name of sensors and detectors. Max. 40 items of information can be stored in memory. (The old ones are deleted sequentially.) The trouble section may be determined by the data.

(Jam cause code)

Item	Jam contents
TRAY1	1st cassette pick-up miss
TRAY2	2nd cassette pick-up miss
TRAY3	3rd cassette pick-up miss
TRAY4	4th cassette pick-up miss
BPT	Multi manual feed pick-up miss
PPD1_ND	Paper-in sensor lead edge jam
PPD1_ST	Paper-in sensor rear edge jam
PPD1_DUP	Paper-in sensor reverse jam
PPD2_ND	Duplex sensor lead edge jam
PPD2_ST	Duplex sensor rear edge jam
POD2_ND	Upper stage paper exit lead edge jam
POD2_ST	Upper stage paper exit rear edge jam
POD1_ND	Lower stage paper exit lead edge jam
POD1_ST	Lower stage paper exit rear edge jam
PINT_SHORT	Abnormality between PS papers.
PFD2_ND	2nd paper pass lead edge jam
PFD2_ST	2nd paper pass rear edge jam
PFD3_ND	3rd paper pass lead edge jam
PFD3_ST	3rd paper pass rear edge jam
PFD4_ND	4th paper pass lead edge jam
PFD4_ST	4th paper pass rear edge jam
SIZE_SHORT	Duplex short scale error
FIN_INPDND	Finisher paper entry jam
FIN_T10D	Finisher escape tray jam
FIN_T20D	Finisher offset tray jam
FIN_STPL	Finisher staple tray jam
PPD1_ND2	Reverse sensor lead edge jam
PPD1_ST2	Reverse sensor rear edge jam

SIMULATION 22-3 PAPER JAM HISTORY.

22-4

Purpose	Adjustment/setting/operation data output/check (display/print)
Function (Purpose)	Used to check the total trouble (self diag) history.
Item	Trouble

Operation/procedure

The trouble error codes are displayed in the sequence of the latest one first. Max. 40 items of information are stored. (Older ones are deleted in sequence.) The machine condition can be estimated by this data.

SIMULATION 22-4 TROUBLE HISTORY. XX-XX XX-XX

22-5

Purpose	Adjustment/Setting/Check	
Function	Used to check the ROM version of each unit (section).	
(Purpose)		
Item	Software	
O		

Operation/procedure

Used to display the ROM version of each section.

[Display example]

ROM version $1.250 \rightarrow [1.25]$ (up to 2 decimal places)

The display of the protocol monitor and the soft SW follows this display.

S/N	Machine serial number
MCU	Main Control Unit
IMC	IMC
OPE	Panel + Panel label code
PRINTER	PRINTER
NIC	NIC (For the Soft Nic, the Soft Nic version is displayed.
	When the AR-NC5 is installed, the AR-NC5J version is
	displayed.)
FINISHER	FINISHER
FAX	FAX

If it is not installed, "- - - - - - - - " is displayed.

[Label code display]

Contents of "XXX" section on the display below

Panel display	Destination	Selection code		Panel software support language
JPN	Japan			Japanese, American English, English
EFS	SEC	AJ/AM		American English, English,
	SECL	AL/AC		French, Spanish
	SUK	BK/BB		
EEU	SEEG/	GG/GD		English, German, Polish,
	SEA/East			Czech, Hungarian, Greek,
	Europe,			Turkish, Russian, French,
	etc.			Italian, Slovak

Panel display	Destination	Selection	code	Panel software support language
NEU	SEF/ SEES/ SEIS/SEN, etc.	BG/DG/ BD/DD		English, German, French, Spanish, Dutch, Italian, Portuguese, Swedish, Norwegian, Finnish, Danish
	SCA/SCNZ Distributor area	BA/BN		American English, English, French, Spanish
CHN	SOCC	ΒZ	UE5	Simplified Chinese, American English, English
TWN	Taiwan	BE/BT	UT1	Traditional Chinese (Local support), American English, English
EFS *1	Special countries			American English, English, French, Spanish, Hebrew (Local support)

*1: Display at the current state

ROM VER		
	SION DATA DISPLAY.	
S/N	000000000	
MCU	00.00	
IMC	:00.00	
OPE	00.00 XXX	Panel label code
PRINTER	00.00	
NIC	00.00	
FINISHER	00.00	
FAX	00.00	

22-6

•			
Purpose	Adjustment/setting/operation data output/check		
	(display/print)		
Function	Used to print each key operator setting, the account		
(Purpose)	information, and the machine adjustment values.		
Item	Data	Setting/adjustment data	

Operation/Procedure

(Initial screen)

The currently set value is highlighted beside the adjustment item.

- 1. Select the adjustment item with the 10-key.
- 2. Press the [START] key.
- The display is shifted to the copy menu and the set value is stored.
- 3. Select the paper feed tray and the print density.
- 4. Press the [START] key. Copying is started. (Printing at 1200dpi cannot be made.)

After canceling a jam (After picking up, the [C] key is invalid.)

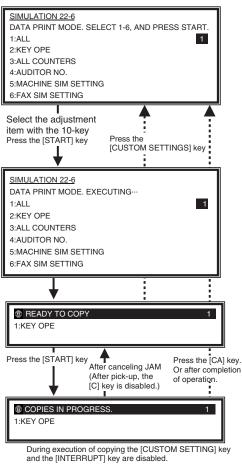
When the other information is repeatedly printed, the display may show the message, "Remove original from original table." However, the operation is performed normally.

	Item	Content
1	ALL	All lists group print
2	KEY OPE	Key operator information list
3	ALL COUNTERS	List of total number of prints
4	AUDITOR NO.	Department number list
5	MACHINE SIM	Machine simulation setting list
	SETTING	
6	FAX SIM SETTING*1	FAX simulation setting list (Only when
		the FAX board is installed. The display
		does not go to the print data transfer
		display, but to the FAX SIM menu.)

* When the IMC board is not installed, key input is disabled.

- * Duplex print cannot be made.
- * For the FAX SIM setting list, the display and the operating procedures differ.

Note: When the simulation is canceled, the display returns to the original state but the machine is not reset.



22-7			
Purpose User data output/Check (Display/Print)			
Function	Used to display the key operator code. (Use when the		
(Purpose)	customer key operator code is forgotten.)		
Item	Data User data		
• ·· ·			

Operation/procedure

Used to display the key operator code.

SIMULATION 22-7				
KEY OPE	RATOR CODE DISPLAY.			
CODE :	nnnn			
CODE :	որորո			

22-8	
Purpose	Adjustment/setting/operation data output/check (display/print)
Function	Used to display the original, staple counter.
(Purpose)	
Item	Counter
Operation/pr	cocedure

Operation/procedure Each counter is displayed.

SPF	SPF/RSPF counter			
SCAN	Scan counter			
STAPLE	Stapler counter			

The counter display is in 7 digits.

SIMULA	TIO	N 22-8
ORG./ST	API	LE COUNTER DATA DISPLAY.
SPF	:	nnnnnn
SCAN	:	nnnnnn
STAPLE	:	nnnnnn

22-9

<u> </u>		
Purpose	Adjustment/setting/operation data output/check (display/print)	
Function	Used to check the number of use of each paper feed	
(Purpose)	section. (the number of prints)	
Section	Paper feed	
Item	Counter	

Operation/procedure

Used to display each paper feed counter.

В	YPASS	Manual feed counter	TRAY3	Tray 3 counter
Т	RAY1	Tray 1 counter	TRAY4	Tray 4 counter
Т	RAY2	Tray 2 counter		

The counter display is in 7 digits.

		N 22-9			
PAPER F	EEC	COUNTER D	ATA DISPL	AY.	
BYPASS	:	nnnnnn	TRAY1	:	nnnnnn
TRAY2	:	nnnnnn	TRAY3	:	nnnnnn
TRAY4	:	nnnnnn			

22-10

Purpose	Adjustment/setting/operation data output/check (display/print)		
Function	Used to check the system configulation.		
(Purpose)			
Item	Specifications	Option	
a /			

Operation/procedure

The detected machine composition is displayed.

(The job separator cannot be detected. Based on SIM 26-1 setting.)

Item	Display items
SPEED	23CPM/27CPM/26CPM
DF	NONE/[1: SPF]/[2: RSPF]
OUTPUT	NONE/[3: Finisher]/[4: Job separator]
CASETTE1	NONE/[5: One-step paper feed unit]
CASETTE2	NONE/[6: Two-step paper feed unit]
IMC MEM	NONE/Expansion memory capacity (MB)
PRINTER	NONE/[7: PRINTER]
PS3	NONE/[8: PS3]
NIC	NONE/[9: NIC]
SCANNER	NONE/[10: SCANNER]
FAX	NONE/[11: FAX]
FAX MEM	NONE/Memory capacity (MB)
HAND SET	NONE/[12: Handset]

NONE: When it is not installed, "-----" is displayed.

[]: Shows the product code in the list below.

No.	Item	Model code
1	RSPF	AR-RP7
2	Finisher	AR-FN5N
		AR-F14 (Saddle finisher)
3	Job separator	AR-TR3
4	1 tray paper feed unit	AR-D21 (*1)
5	2 tray paper feed unit	AR-D22 (*1)
6	PRINTER	AR-P17
7	PS3	AR-PK1
8	NIC	AR-NC5J
9	SCANNER	AR-NS2
10	FAX	AR-FX7
11	Handset	AR-HN4

WWW.SERVICE-M1. The number of installed units is displayed beside the model code.

For the cassettes, only the option cassette is displayed.

For the job separator, the printer, and the PS3, which are provided as standard provision, and when the GDI is installed, they are displayed as STANDARD.

For the scanner, however, even though it is a standard unit, its model name is displayed. For the NIC, when the SoftNic is installed, it is not displayed. When the NIC board is installed, its model name is displayed.

1000 9230 585	ATION 22-10 M INFORMATION			
	M INFORMATION	DF	: XXXXXXX	
	JT : XXXXXXX	S. Anna	TTE1: XXXXXXX	
	TE2: XXXXXXX		MEM : XXXXXXX	
	ER : XXXXXXX	PS3	: XXXXXXX	
NIC	: XXXXXXX		IER : XXXXXXX	
	: XXXXXXX	FAX M	EM : XXXXXXX	
HAND	SET: XXXXXXX			

22-11	
Purpose	Adjustment/setting/operation data output/check (display/print)
Function (Purpose)	Used to display the FAX send/receive counter (FAX reception and print counter).
Section	FAX
Item	Counter

Operation/procedure

Used to display the FAX send/receive counter.

FAX SEND PAGE/TIME	FAX send page and time
FAX RECEIVE PAGE/TIME	FAX receive page and time
FAX OUTPUT	FAX output (number of print)

The counter display is in 7 digits.

Note: Executable only when the FAX is installed.

SIMULATION :	2 <u>2-11</u>				
FAX COUNTER	DATA DISP	LAY.			
FAX SEND	PAGE :	******	TIME :	hhhhhhh:mm:ss	
FAX RECEIVE	PAGE :	*****	TIME :	hhhhhhh:mm:ss	
FAX OUTPUT	:	******			

22-12

Purpose	Adjustment/setting/operation data output/check (display/print)	
Function (Purpose)	Used to check the misfeed positions and the number of misfeed at each position. (When the number of misfeed is considerably great, it can be judged as necessary for repair.)	
Section	SPF/RSPF	
Item	Trouble Misfeed	

Operation/procedure

Used to display the SPF/RSPF jam history data sequentially from the latest one.

Forty SPF/RSPF jam histories are displayed sequentially from the latest.

	1		
			Paper Reached/
Error code	Name	Sensor name	Not Reached to
			the sensor
DFD_ND	SPF/RSPF paper in	SPF P-IN	Not Reached
	lead edge jam	sensor	
DFD_ST	SPF/RSPF paper in	SPF P-IN	Reached
	rear edge jam	sensor	
RDD_ND	SPF/RSPF paper	SPF P-IN	Reached,
	out lead edge jam	sensor	P_OUT Not
			Reached
RDD_ST	SPF/RSPF paper	SPF P-OUT	Reached, P_IN
	out rear edge jam	sensor	passed (OFF)
JAM_REV	SPF/RSPF duplex	SPF P-IN	Not Reached
	reverse jam	sensor	(Paper after
			reversing)
ORG_SHORT	SPF/RSPF short	SPF P-IN	Passed (OFF at
	size error	sensor	JAM)
ORG_LONG	SPF/RSPF long	SPF P-OUT	Reached
	size error	sensor	
		SPF P-IN	Reached
		sensor	

22-13

Purpose	Adjustment/setting/operation data output/check (display/print)	
Function	Used to display the CRUM type.	
(Purpose)		
Item	Specifications	
Operation/Procedure		
lead to display the ODUM type		

Used to display the CRUM type.

	1 3 31
Item	Content
00	Not fixed.
01	AR-A
02	AR-B
03	AR-C
04	DM (VER)
05	DM (WEB)
06	CHINA
99	Conversion completed.

SIMULATION	22-13	
CRUM TYPE D	ISPLAY.	
CRUM TYPE	nn	

22-19

\djustment/setting/operation data output/check display/print)
Jsed to display the scanner counter in the network canner mode.
letwork scanner
Counter
J

Operation/procedure

Used to display the scanner counter.

SCANMODE Scanner mode counter

SIMULATION 22-19 SCAN MODE COUNTER DATA DISPLAY. SCANMODE: nnnnnn

24

24-1

Purpose	Data clear
Function	Used to clear the misfeed counter, the misfeed history,
(Purpose) the trouble counter, and the trouble history. (The	
	counters are cleared after completion of maintenance.)
Section	Memory
Item	Counter

Operation/procedure

Jam/trouble counter is cleared individually. (The history of each counter is deleted when clearing)

- 1. Select the counter to be cleared with the 10-key.
- 2. Press the [START] key.
 - The confirmation menu is shown.
- 3. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

	Item	Content
1	JAM	JAM counter/JAM history
2	SPF JAM	SPF/RSPF JAM counter/SPF/RSPF JAM history
3	TROUBLE	Trouble counter/Trouble history

SIMULATIO	<u>ON 24-1</u>		
JAM/TROU	BLE COUNTER DA	TA CLEAR. SELECT	Г 1-3, AND
PRESS STA	ART.		
1:JAM	2:SPF JAM	3:TROUBLE	2

24-2		
Purpose	Data clear	
Function	Used to clear the number of use (the number of prints)	
(Purpose)	of each paper feed section.	
Section	Paper feed	
Item	Counter	
Operation/procedure		

Operation/procedure

Used to clear each paper feed counter individually.

- 1. Select the counter to be cleared with the 10-key.
- 2. Press the [START] key. The confirmation menu is shown.
- 3. Select "1: YES."
 - 1: YES (Cleared)

2: NO (Not cleared) (Default)

Item		Content	
1	BYPASS	Manual feed counter	
2	TRAY1	Tray 1 counter	
3	TRAY2	Tray 2 counter	
4	TRAY3	Tray 3 counter	
5	TRAY4	Tray 4 counter	

	D COUNTE	R DATA CLEAR. SELECT	1-5, AND
PRESS STA	RT.		
1:BYPASS	2:TRAY1	3:TRAY2	2
4:TRAY3	5:TRAY4		

24-3

Purpose	Data clear
Function (Purpose)	Used to clear the number data of use of the staple, the SPF/RSPF and scanning.
Section	Transport/Finisher
Item	Counter

Operation/procedure

Used to clear the original and staple counters individually.

- 1. Select the counter to be cleared with the 10-key.
- 2. Press the [START] key. The confirmation menu is shown.
- 3. Select "1: YES."
- 1: YES (Cleared)

2: NO (Not cleared) (Default)

Item		Content	
1	SPF	SPF/RSPF counter	
2	SCAN	Scan counter	
3	STAPLE	Stapler counter	
	-	1 SPF 2 SCAN	

	TION 24-3		FOT 1 2 AND
ORG./ST	APLE COUNT	TER DATA CLEAR. SEL	EGT 1-3, AND
PRESS S	TART.		
1:SPF	2:SCAN	3:STAPLE	2

24-4	

Purpose	Data clear	
Function (Purpose)	Used to reset the maintenance counter.	
Item	Counter	
Our constitution for the second second		

Operation/procedure

- 1. Press the [START] key. The confirmation menu is shown.
- 2. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

SIMULATION 24-4 MAINTENANCE COUNTER DATA CLEAR. PRESS START.

24-5

240			
Purpose	Data clear		
Function	Used to reset the developer counter. (The developer		
(Purpose)	counter of the DV unit which is installed is reset.)		
Section	Image process (Photoconductor/Developing/Transfer/ Cleaning)		
	Developer/Toner hopper		
Item	Counter Developer		
Onevetien/ny	in a a durra		

Operation/procedure

- 1. Press the [START] key. The confirmation menu is shown.
- 2. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)



24-6	
------	--

Purpose	Data clear	
Function (Purpose)	Used to clear the copy counter.	
Item	Counter	Copier

Operation/procedure

- 1. Press the [START] key. The confirmation menu is shown.
- 2. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

SIMULATION 24-6

COPY COUNTER DATA CLEAR. PRESS START.

24-7

Purpose	se Data clear	
Function	Used to clear the OPC drum (membrane decrease)	
(Purpose)	correction counter. (This simulation is executed when	
	the OPC drum is replaced.	
Section Image process (Photoconductor/Developing/Tran		
	Cleaning)	
	Photo conductor	
Item	Counter	

Operation/procedure

- 1. Press the [START] key. The confirmation menu is shown.
- 2. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

SIMULATION 24-7 DRUM COUNTER DATA CLEAR. PRESS START.

24-9				
Purpose	Data clear			
Function (Purpose)	Used to clear the printer counter and other counters. (The counter is cleared after completion of maintenance.)			
Section	Printer			
Item	Counter Printer			

Operation/procedure

- 1. Select the counter to be cleared with the 10-key.
- 2. Press the [START] key. The confirmation menu is shown.
- 3. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

Item		Content
1 PRINTER Printer counter		Printer counter
2	IMC	IMC counter
3	DUPLEX	DUPLEX counter
4	OTHERS	The other counters

SIMULATIO	N 24-9			
PRINTER/O	THERS C	OUNTER DA	TA CLEAR. SEI	LECT 1-4,
AND PRESS	START.			
1:PRINTER	2:IMC	3:DUPLEX	4:OTHERS	2

24-10

Purpose	Data clear	
Function (Purpose)	FAX counter data clear	
Section	FAX	
Item	Counter	

Operation/procedure

- 1. Select the "3: NUMBER OF PRINTS", and press the [START] key. The confirmation menu is shown.
- 2. Select "1: YES."
- 1: YES (Cleared)

2: NO (Not cleared) (Default)

Item		Content	
1 FAX SEND		FAX send page and time	
	(PAGE & TIME)		
2	FAX RECEIVE	FAX receive page and time	
	(PAGE & TIME)		
3	FAX OUTPUT	FAX output (number of prints)	

Note: Executable only when the FAX is installed.

<u>SIMULATION 24-10</u> FAX OUTPUT COUNTER DATA CLEAR. PRESS START.

24-15

24-15		
Purpose Data clear		
Function Used to clear the scanner counter in the network		
(Purpose) scanner mode.		
Section Scanner section		
Item Counter		

Operation/procedure

1. Press the [START] key.

The confirmation menu is shown.

- 2. Select "1: YES."
 - 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

The scanner mode counter and the number of send of the scanner are cleared.

- * The simulation to perform communication with the PCL is inhibited until Notice Page storing is completed. (Only when the serviceman call error occurs.)
- * When in other than the serviceman call error, entering the simulation is not allowed from the system check display.

SIMULATION 24-15 SCAN MODE COUNTER DATA CLEAR. PRESS START.

25

25-1		
Purpose	Operation test/check	
Function	Used to check the operation of the main drive	
(Purpose) (excluding the scanner section) and to check the operation of the toner concentration sensor. (The to concentration sensor output can be monitored.) (To supported for Ver.00.72 or later)		
Section DRIVE		
Item	Operation	

Operation/procedure

- 1. Select the speed (600dpi, 1200dpi) with the 10-key.
- 2. Press the [START] key.
- The main motor rotates to start monitoring the toner density control sensor. (3min operation)

After execution, interruption cannot be made for about 7 sec. ([CA] key and [CUSTOM SETTINGS] key are disabled.)

* Even in toner end error, if there is no other error (including cover open) after turning on the power, this simulation can be performed.

SIMULATION 25-1	
MAIN MOTOR CHECK. SELECT 1-2, AND F	PRESS START.
1:600dpi	2
2:1200dpi	

25-2

Purpose	Setting	
Function	Used to make the initial setting of toner concentration	
(Purpose) when replacing developer.		
Section Image process (Photoconductor/Developing/Tra		
Cleaning)		
	Developer/Toner hopper	

Operation/procedure

- 1) Open the cover with the power OFF.
- Turn on the power. (Since the cover is open, the machine does not perform initializing.)
- 3) Install the developing tank.
- 4) Execute the simulation.
- 5) Enter SIM 25-2. ([25] \rightarrow [START] key \rightarrow [2] \rightarrow [START] key)
- 6) Open the cover just before starting the simulation.
- 7) Press the [START] key.

The main motor rotates. After stirring for 3 min, the toner density control sensor value is sampled 16 times, and the average value is stored.

When "EE-EU" or "EE-EL" after completion, an error display is shown.

Note: After completion of execution, be sure to press the [CA] key to cancel the simulation.

[CRUM-related error cancel procedure]

When "CRUM DEVICE ERROR" is displayed:

Error content: Occurs in case of a communication error between the machine and CRUM.

Cancel procedure: Reset with [CA] key and cancel with SIM 16. • "CRUM DATA ERROR"

Error content:	CRUM identification error, CRUM model error,	
	CRUM type error, CRUM destination error	

Cancel procedure: Install the CRUM which is satisfactory with the machine setup, reset with the [CA] key, and execute SIM 25-2 again.

• "DEVE UNIT NONE"

Error content: Occurs when the developing unit is not installed in an AR model.

- Cancel procedure: It returns to the state before execution of auto developer adjustment. It is canceled by the operations of Cover open \rightarrow Developing unit installation \rightarrow Cover close. Therefore, developer adjustment is started by pressing [START] key.
- "TONER UNIT NONE"

Error content: Occurs when the CRUM is not installed in a DM model.

Cancel procedure: It returns to the state before execution of auto developer adjustment. It is canceled by the operations of Cover open → CRUM installation → Cover close. Therefore, developer adjustment is started by pressing [START] key. W. SERVICE-MANUAL.NET

• "EU ERROR"

Error content: Occurs when the toner concentration reference value calculated in developer adjustment finally is 179 or greater.

Cancel procedure: Reset with [CA] key and execute SIM 25-2 again.

"EL ERROR"

Error content: Occurs when the toner concentration reference value calculated in developer adjustment finally is 77 or smaller.

Cancel procedure: Reset with [CA] key and execute SIM 25-2 again.

SIMULATION 25-2 AUTOMATIC DV ADJUSTMENT. PRESS START.

26

26-1			
Purpose	Irpose Setting		
Function	Used to set whether the job separator is installed or		
(Purpose)	not. (Since this cannot be detected by hardware		
	detection, it is set in this simulation.)		
Item	Specifications Option		
Operation/precedure			

Operation/procedure

- 1. Select the set value with the 10-key.
- 2. Press the [START] key.

Set value	Connection option	
0	None (default)	
1	Job separator provided.	

SIMULATION 26-1 OPTION SETTING. SELECT 0-1, AND PRESS START. 0:NONE 1:JOB SEPARATOR

26-2

Purpose	Setting
Function Used to set whether the automatic detection of paper	
(Purpose)	size is made or not.
Section	Paper feed
Item	Specifications

Operation/procedure

- 1. Select the item with the 10-key and press the [START] key. Used to set the automatic size detection.
- 2. Set whether automatic detection of paper size is made or not with the 10-key.

-			
1:B4/LG,FC	Setting to detect B4/Legal as FC		
	0: B4 legal is detected as B4 legal. (Default)		
	1: B4 legal is detected as FC.		
2:A4<->LT	This setup detects Letter as A4 in the inch series and		
	A4 as Letter in the AB series.		
	0: Detection disable (Default)		
	1: Detection valid		
8 5" x 13" detection valid/invalid setup			

0.0	,	CIG	, uei	ection	valiu/iliv	allus	seiup	
-					-			1

Set value	Setup	Remarks
0	Detection invalid	Default
1	Detection valid	

				Set v	/alue
	Employed unit	Destination	Document size	0	1
				(Invalid)	(Valid)
Document	Document table/RSPF	AB series (Japan)	FC (8.5" x 13")	B4	B4
			LG (8.5" x 14")	B4	B4
			B4	B4	B4
		AB series	FC (8.5" x 13")	B4	FC (8.5" x 13")
			LG (8.5" x 14")	B4	FC (8.5" x 13")
			B4	B4	FC (8.5" x 13")
		Inch series	FC (8.5" x 13")	LG (8.5" x 14")	FC (8.5" x 13")
			LG (8.5" x 14")	LG (8.5" x 14")	FC (8.5" x 13")
			B4	WLT (11" x 17")	WLT (11" x 17")
Paper	Machine paper feed cassette	All destinations	-	Set with key	operations.
	Manual paper feed tray	Japan (AB series)	FC (8.5" x 13")	LG (8.5" x 14")	LG (8.5" x 14")
			LG (8.5" x 14")	LG (8.5" x 14")	LG (8.5" x 14")
			B4	B4	B4
		AB series	FC (8.5" x 13")	LG (8.5" x 14")	FC (8.5" x 13")
			LG (8.5" x 14")	LG (8.5" x 14")	FC (8.5" x 13")
			B4	B4	B4
		Inch series	FC (8.5" x 13")	LG (8.5" x 14")	FC (8.5" x 13")
			LG (8.5" x 14")	LG (8.5" x 14")	FC (8.5" x 13")
			B4	B4	B4

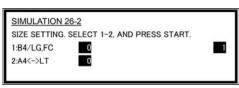
A4/LT (8.5" x 11") detection enable/disable setup

In the inch series, Letter is detected as A4; in the AB series, A4 is detected as Letter.

Set value	Setup	Remarks	
0	Detection invalid	Default	
1 Detection valid			

Detection size when A4/LT (8.5" x 11") document/paper is used.

				Set v	/alue
	Employed unit	Destination	Document size	0	1
				(Invalid)	(Valid)
Document	Document table/RSPF	AB series	A4	A4	LT (8.5" x 11")
			LT (8.5" x 11")	A4	LT (8.5" x 11")
		Inch series	A4	LT (8.5" x 11")	A4
			LT (8.5" x 11")	LT (8.5" x 11")	A4
Paper	Machine paper feed cassette	All destinations	-	Set with key	operations.
	Manual paper feed tray	All destinations	_	Regardless of the	simulation setup.



26-3	
Purpose Setting	
Function Used to set the specifications of the auditor. Setting	
(Purpose) must be made depending on the use condition of t	
	auditor.
Section	Auditor
Item	Specifications

Operation/procedure

Select the mode corresponding to the auditor specification mode with the 10-key.

	Item	Content	Setting range	Default
0	P10	Built-in auditor mode	0-2	0
1	VENDOR	Coin vendor mode		
2	OTHER	Others		
Wh	When "1: VENDOR (Coin wonder mode)" is set the following three			

When "1: VENDOR (Coin vendor mode)" is set, the following three items of key operation setting are changed.

1) Set the LCD backlight change inhibit to "1: OFF (Enable)."

- 2) When SIM 26-6 destination setting is set to "0: Japan," duplex copy inhibit setting must be set to "0: ON (Inhibit)."
- 3) Set the sort automatic selection to "0: OFF (Disable)."

SIMULATION 26-3	
AUDITOR SETUP. SELECT 0-2, AND PRESS START.	
0:P10	0
1:VENDOR	
2:OTHER	

26-5			
Setting			
Used to set the count mode of the total counter and the			
maintenance counter.			
Specifications Counter			
	Used to set the count mode maintenance counter.		

Operation/procedure

Used to set the count up number (1 or 2) when an A3/WLT paper passes through.

FF (Enable)." For the drum counter and the developer counter, double count is WWW.SERVICE-Memployed unconditionally. (Target counter selection)

	Item	Content
1	TOTAL COUNTER	Total
2	MAINTENANCE COUNTER	Maintenance

Used to set the count up number of the selected counter.

	Item		n Content		Default
-	1	1:SINGLE COUNT	Single count	1-2	2
2	2	2:DOUBLE COUNT	Double count		

SIMULATION 26-5 A3(LEDGER) COUNT UP MODE SETTING. SELECT 1-2, A	AND
PRESS START. 1:TOTAL COUNTER 2:MAINTE COUNTER	2

26-6

Purpose	Setting		
Function	Used to set the specifications depending on the		
(Purpose)	destination.		
Item	Specifications	Destination	

Operation/procedure

Select the destination with the 10-key.

By changing the destination, some other setting items may be changed.

	Item	Content	Setting range	Default
0	JAPAN	Japan	0-13	0
1	SEC	SEC		
2	SECL	SECL		
3	SEEG	SEEG		
4	SUK	SUK		
5	SCA	SCA		
6	SEF	SEF		
7	INEG	EX inch series		
8	ABEG	EX AB series		
9	INEF	EX inch series (FC)		
10	ABEF	EX AB series (FC)		
11	CHINESE	China		
12	TAIWAN	Taiwan		
13	SEEG2	SEEG2		

SIMULATION 26-6	JP. SELECT 0-13, AND PRESS START.
0:JAPAN	1:SEC 0
2:SECL	3:SEEG
4:SUK	5:SCA
6:SEF	7:INEG
8:ABEG	9:INEF
10:ABEF	11:CHINESE
12:TAIWAN	13:SEEG2

26-10

Purpose	Setting
Function (Purpose)	Network scanner trial mode setting
Section	Scanner

Operation/procedure

Enter the set value with the 10-key and press the [START] key.

Item		Content	Default
0	END	Trail mode cancel	0
1	START	Trial mode start	

If the trial scanner counter value is less than 500, the trial mode setting can be repeatedly made. If the scanner trial counter value is 500 or more, the trial mode setting cannot be made.

When the scanner is not set and the scanner trial counter value is less than 500, if "1" is entered in SIM26-10, the trial mode setting is started. If "0" is entered in SIM26-10, the trial mode setting is canceled.

After recognition of the scanner, the trial mode setting cannot be made. (Entering "1" is invalid and a beep sound is produced.)

When this setting is made, the machine must be reset after canceling the simulation. When "1: Trial mode start" is selected, the scanner function is valid. If "0: Trial mode cancel" is selected, the scanner function is invalid.

When setting is invalid (when the scanner is recognized or the scanner trial counter value is 500 or more) in the key operations of the trail mode setting, an invalid sound (beep sound) is made. In the other case, a valid sound is made.

* When the scanner trial counter value is changed from 500 or more to less than 500, the trail setting is changed from "END" to "SETTING START."

Note: Executable only when the PCL/SCANNER is installed.

SIMULATION 26-10				
NETWORK SCANNER	TRIAL	SETTING.	SELECT	0-1, AND
PRESS START.				
0: END				0
1: START				0.00

26-12

2012	
Purpose	Setting
Function	Used to input the Software Key for E-MAIL RIC.
(Purpose)	
Section	E-MAIL RIC
Item	Specifications
Operation/n	rocedure

Operation/procedure

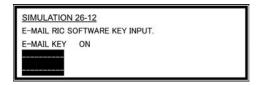
The current setup is displayed with ON or OFF.

Enter an input (20 digits) of the E-MAIL RIC soft key with the 10-key and press the [START] key, and the collating result is displayed with OK or NG.

After canceling the simulation, if OK, the E-MAIL RIC function is enable; if NG, the E-MAIL RIC function is disabled.

- This setting must be reset after the simulation cancel.
- * If recognition is OK, the E-Mail RIC can be set to Enable. If the FAX is installed, however, the operation cannot be made actually.

Note: Executable only when the PCL/NIC is installed.



26-14	
Purpose	Setting
Function	Used to input the Software Key for the PS extention kit.
(Purpose)	
Section	Printer
Item	Specifications
Operation/pi	rocedure

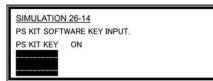
The current setup is displayed with ON or OFF.

Enter an input (20 digits) of the PS expansion kit soft key with the 10key and press the [START] key, and the collating result is displayed with OK or NG.

After canceling the simulation, if OK, the PS expansion kit function is enable; if NG, the PS expansion kit function is disabled.

This setting must be reset after the simulation cancel.

Note: Executable only when the PCL/PS3 is installed.



26-18

Function Used to set enable/disable of toner save operatio	n		
	Used to set enable/disable of toner save operation.		
(Purpose)			
Item Specifications Operation mode (Com	imon)		

Operation/procedure

Input the set value with the 10-key and press the [START] key.

	Item	Content	Setting range	Default
0	OFF	Disable	0-1	0
1	ON	Enable		

Note: Setup is allowed only for Japan and UK.

SIMULATION 26-18	
TONER SAVE MODE SETTING. SELECT 0-1, AND F	RESS
START.	- 1
0:OFF	0
1:ON	10 90

26-22				
Purpose	Setting			
Function	Used to set the specification (language display) for the			
(Purpose)	destination.			
Item	Specifications			

Operation/procedure

Select the display language (language code) with the 10-key according to the table below, and press the [START] key.

This setup	varies in	connection	with SIM	126-6	(Destination	setup).

ltem		Language	ASIC	Demendue
	Item	code	expression	Remarks
0	JAPANESE	ja	6A 61	
1	ENG.US	en	65 6E	
2	ENG.UK	gb	67 62	
3	FRENCH	fr	66 72	
4	GERMAN	de	64 65	
5	ITALY	it	69 74	
6	DUTCH	nl	6E 6C	
7	SWEDISH	sv	73 76	
8	SPANISH	es	65 73	
9	PORTUGUESE	pt	70 74	
10	TURKISH	tr	74 72	
11	GREEK	el	65 6C	
12	POLISH	pl	70 6C	
13	HUNGARIAN	hu	68 75	
14	CZECH	cs	63 73	
15	RUSSIAN	ru	72 75	
16	FINNISH	fi	66 69	
17	NORWEGIAN	no	6E 6F	
18	DANISH	da	64 61	
19	CHINESE	zh	7A 68	
20	TAIWANESE	tw	74 77	Traditional Chinese
				supported locally
21	SLOVAK	sk	73 6B	
22	HEBREW	he	68 65	Supported locally

LANGUAGE SET	TING. SELECT 0-2	2, AND PRESS STAF
0:JAPANESE	1:ENG.US	2:ENG.UK
3:FRENCH	4:GERMAN	5:ITALY
6:DUTCH	7:SWEDISH	8:SPANISH
9:PORTUGUESE	10:TURKISH	11:GREEK
12:POLISH	13:HUNGARIAN	14:CZECH
15:RUSSIAN	16:FINNISH	17:NORWEGIAN
18:DANISH	19:CHINESE	20:TAIWANESE
21: SLOVAK	22:HEBREW	

26-30					
Purpose	Setting				
Function	Used to set ON/OFF of the heater lamp slow-up				
(Purpose)	control conforming to the CE mark control.				
Item	Specifications	Operation mode (Common)			
Operation/pr	ocoduro				

Operation/procedure

Input the set value with the 10-key and press the $\left[\text{START}\right]$ key.

This setup varies in connection with SIM 26-6 (Destination setup).

Item Japan, SEC, SECL,	
SCA, SEF, Taiwan Others	;
0 OFF 0 1	
1 ON	

SIMULATION 26-30				
CE MARK CONTRO	L SETTING.	SELECT	0-1, AND	PRESS
START.				
0:OFF				0
1:ON				

26-35				
Purpose	Setup			
Function	Used to set whether the same continuous troubles are			
(Purpose)	displayed as one trouble or the series of troubles with			
	SIM 22-4 when the same troubles occur continuously.			
Item	Specifications			
Operation/n	rocedure			

Operation/procedure

Enter the set value with 10-key, and press [START] key.

Item		n Content	
0	ONCE	When two or more troubles occur, only one	0
		is registered.	
1	ANY	All the troubles occurred are registered.	

SIMULATIO	<u> 26-35 ON 26-35</u>				
TROUBLE	MEMORY	MODE	SETTING.	SELECT	0-1, AND
PRESS STA	ART.				
0:ONCE					0
1:ANY					10.00

26-36

Purpose	Setting	
Function Used to set whether the machine is stopped or not		
(Purpose) when the maintenance counter life is expired.		
Item Operation		
Operation/procedure		
Input the set value with the 10-key and press the [START] key.		

	Item	Content	Default
0	STOP	Stop	1
1	NON STOP	Non stop	

Note: Executable only with SRU (AR models).

SIMULATION 26-36 MAINTENANCE COUNTER LIFE OVER SETTING. SELECT 0-1, AND PRESS START. 0:STOP 1:NON STOP

26-41		
Purpose	Setting	
Function Used to set ON/OFF of the automatic magnification		
(Purpose) ratio selection (AMS) when setting the binding		
	function.	
Item	Operation	

Operation/procedure

Enter the set value with the 10-key, and press the [START] key.

Item		Content	Default
0	OFF	AMS is not set automatically.	0
1	ON	AMS is set automatically.	

SIMULATION 26-41
PAMPHLET MODE AMS SETTING. SELECT 0-1, AND PRESS
START.
0:OFF 0
1:ON

26-46	
Purpose	Setting
Function Used to set whether to meet with the output direction	
(Purpose)	images regardless of the mode when installing the
	finisher.
Item	Operation

Operation/procedure

When this setting is made, the image output direction in the staple mode and that in the normal mode become the same. Therefore, the user who uses printed paper (logo, house style, etc) need not change the original direction in the staple mode. (When the finisher is used, images are rotated 180 degrees in the staple mode.)

Enter the set value with the 10-key, and press the [START] key.

Item Content Default 0 OFF No setting (The output image direction is changed in the staple mode of the finisher.) 0 1 ON Setting (The output image direction is the same regardless of stapling or not.) 0				
1 ON Setting (The output image direction is the	Item		Content	Default
	0	OFF		0
	1	ON		

Note: Executable only when the finisher is installed.

SIMULATION 26-46						
OUT	DIRECTION	SETTING.	SELECT	0-1,	AND	PRESS
START.						
0:OFF			0			
1:ON						1.2

26-50	

Purpose Setting	
Function Used to set ON/OFF of the black and white reversio	
(Purpose) function.	
Item	Operation

Operation/procedure

Enter the set value with the 10-key, and press the [START] key.

Item		Content	Default
0 ON		Enable	0
1	OFF	Disable	

SIMULATION 26-50 B/W REVERSE SETTING. SELECT 0-1, AND PRESS START. 0:ON 1:OFF

26-57

Purpose	Setting
Function (Purpose)	Used to set the model code.
Item	Operation

Operation/procedure

Input the set value with the 10-key and press the [START] key.

	Item	Default
1	AR-M236	1
2	AR-M276	
3	AR-M237	
4	AR-M277	
5	AR-266S	
6	AR-266G	
7	AR-266FG	
8	AR-266FP	

MACHINE COD	E SETTING.	SELECT	1-8,	AND	PRESS
START.					
1:AR-M236 1					
2:AR-M276					
3:AR-M237					
4:AR-M277					
5:AR-266S					
6:AR-266G					
7:AR-266FG					
8:AR-266FP					

26-60				
Purpose	Setting			
Function (Purpose)	Used to set enable/disable of the FAX mode key when FAX is not installed. (When FAX is installed, the FAX mode is enabled regardless of this setup.)			
Item	Operation			

Operation/procedure

Input the set value with the 10-key and press the [START] key.

	Item			Default		
			Content	JAPAN,		
			Content	SEC, SECL,	Others	
				SUK, SCA		
	0	ON	Effective (The message with	0	1	
			FAX uninstalled is displayed.)			
	1	OFF	Disable (Error Beep)			

This setup varies in connection with SIM 26-6 (Destination setup).

FAX KEY	SETTING. S	SELECT 0-	-1, AND PRE	SS START	KEY.
0:ON					0
1:OFF					

ne [START] key.	26-71	
le [orani] key.	Purpose	Setting
	Function	In the power save time setting, the pre-heat (pre-heat
	(Purpose)	mode setting) and the auto power shut off time can be
		set to the short time setup (pre-heat: 1 min, auto power
WWW.SERVICE-N	IANUAL	shut off: 4 min) and the long time setup (pre-heat: 15min, auto power shut off: 60min).

Operation/procedure

Select the short time setup or the long time setup of the pre-heat time and the auto power shut off time with the 10-key, and press the [START] key.

Item	Content	Default
1	Pre-heat: 1min, auto power shut off: 4min	2
2	Preheat: 15min, auto power shut off: 60min	

Note: When the sub code 71 is entered to display the setting menu, the default values are always displayed. (However, the default time is not always set.)

SIMULATION 26-7 ENERGY-SAVING START. 1:SHORT 2:LONG	71				
ENERGY-SAVING	SETTING.	SELECT	1-2,	AND	PRESS
START.					
1:SHORT					2
2:LONG					



27-1					
Purpose	Setting				
Function	Used to set PC/MODEM communication trouble (U7-				
(Purpose)	00) detection Yes/No.				
Section	Communication (RIC/MODI	EM)			
Item	Specifications	Operation mode			
		(Common)			

Operation/procedure

Input the set value with the 10-key and press the [START] key.

Item		Content	Default
0	OFF In case of the communication trouble, U7-00 is		0
		not displayed.	
1	ON	In case of the communication trouble, U7-00 is	
		displayed.	

SIMULATION 27-1	
DISABLING OF U7-00 TROUBLE. SELECT 0-	1, AND PRESS
START.	
0:OFF	0
1:ON	

27-5				
Purpose	Setting			
Function (Purpose)	Used to set the tag number.			
Item	Data			

Operation/procedure

- 1. The currently set number is displayed on the PRESENT column.
- 2. Enter the new tag number (Max. 8 digits) with the 10-key. The entered number is displayed on the NEW column.
- Press the [START] key. The set value is stored and "PRESENT" is revised.

SIMULA	SIMULATION 27-5			
TAG# SI	TAG# SETTING. INPUT VALUE, AND PRESS START.			
PRESEN	іт :			
NEW	12345678			



30-1			
Purpose	Operation test/check		
Function	Used to display the sensor status attached to the		
(Purpose)	machine.		
Section	Others		
Item	Operation		
Operation/procedure			

The active sensors and detectors are highlighted.

PPD1H	PS paper detection 1 sensor
PPD1L	PS paper detection 2 sensor
PPD2 Fusing paper sensor	
POD1	1st paper exit paper out sensor
DVCH	Developing cartridge detection sensor
DRST	Drum intial detection sensor
DSWR1	Interlock switch (side door)
SFTHP	Shifter home position sensor
POD2	2nd paper exit paper out sensor
TOPF	2nd paper exit full detection sensor
DSWR0	2nd paper exit cover open/close detection sensor
LOEMP	1st paper exit empty detection sensor
DUP2	Reverse path paper sensor

SIMULATION 30-1						
SENSOF	CHECK					
PPD1H	PPD1L	PPD2	POD1	DVCH	DRST	DSWR1
SFTHP	POD2	TOPF	DSWR0	LOEM	P DUP2	

30-2

00-2			
Purpose	Operation test/check		
Function	Used to display the status of the sensors attached to		
(Purpose)	the standard cassette and the manual feed tray. (Use SIM 4-2 for the option cassettes.) The sensor of an uninstalled cassette is not displayed.		
Section	Paper feed		
Item	Operation		
Operation/procedure			

Operation/procedure

The active sensors and detectors are highlighted.

PED1	1st cassette paper empty sensor
LUD1	1st cassette paper upper limit detection sensor
CD1	1st cassette empty sensor
PED2	2nd cassette paper empty sensor
LUD2	2nd cassette paper upper limit detection sensor
CD2	2nd cassette empty sensor
PFD2	2nd cassette paper pass sensor
DSWR2	2nd cassette right door detection sensor
MPED	Manual tray paper empty detection
MPLS1	Manual tray length detection 1
MPLS2	Manual tray length detection 2
MPLD1	Manual feed paper length detection 1
MPLD2	Manual feed paper length detection 2

Width detection size of the manual feed tray (one of them is displayed.) A4/A3, LT/WLT, B5/B4, INV/LTR, A5/A4R, B5R, POSTCARD, EXTRA, 8K/16K

(At detection, highlighted)



WWW.SERVICE-MANUA

40-1		
Purpose	Operation test/check	
Function	Used to check the sensor of the machine manual feed	
(Purpose)	tray.	
Section	Paper feed	
Item	Operation	
Operation/procedure		

The active sensors and detectors are highlighted.

MPLS1	Manual tray length detection 1
MPLS2	Manual tray length detection 2
MPLD1	Manual feed paper length detection 1
MPLD2	Manual feed paper length detection 2

Width detection size of the manual feed tray (one of them is displayed.) A4/A3, LT/WLT, B5/B4, INV/LTR, A5/A4R, B5R, POSTCARD, EXTRA, 8K/16K

SIMUL	ATION 40	-1			
BYPAS	S TRAY S	ENSOR C	HECK.		
MPLS1	MPLS2	MPLD1	MPLD2	A3/A4	INV/LTR
B5/B4	LT/WLT	A5/A4R	B5R I	POSTCAR	DEXTRA
8K/16K					

40-2	
Purpose	Adjustment
Function	Used to adjust the manual paper feed tray paper width
(Purpose)	detector detection level.
Section	Paper feed
Item	Operation

Operation/procedure

The adjustment method is of the 4-point system. Set the guide to Max. (A3/WLetter) position, A4R/Letter R position, A5R/Invoice R position, and Min. position for adjustment.

- 1) Set A3/W Letter and fit the guide, then press the [START] key.
- 2) Set A4R/LetterR and fit the guide, then press the [START] key.
- 3) Set to A5R/INVOICE R and fit the guide, then press the [START] key.
- 4) Narrow the guide at minimum, press the [START] key.
- 5) Set the paper detection width (+), and press the [START] key.
- 6) Set the paper detection width (-), and press the [START] key.

If "FAILED" is displayed in procedure 1), 2), 3), or 4), it is NG of adjustment. Repeat the adjustment.

Middle position adjustment L	Yes	MID-L ADJ.ON
	No	MID-L ADJ.OFF
Middle position adjustment S	Yes	NID-S ADJ.ON
	No	MID-S ADJ.OFF

AB series

Inch series

SIMULATION 40-2	SIMULATION 40-2	
BYPASS TRAY	BYPASS TRAY	
ADJUSTMENT.	ADJUSTMENT.	
A3 PAPER SET, AND	WLT PAPER SET, AND	
PRESS START KEY.	PRESS START KEY.	

40-3	
Purpose	Adjustment
Function	The AD conversion value of manual feed width
(Purpose)	detection is displayed.
Section	Paper feed
Item	Operation

Operation/procedure

The AD conversion value of manual feed width detection is displayed.

SIMULATION 40-3	
BYPASS TRAY WIDTH DATA DISPLAY.	
	123

41-1	
Purpose	Operation test/check
Function	Used to check the document size detection photo
(Purpose)	sensor.
Section	Others
Item	Operation
A	

Operation/procedure

The operation status of the sensors and detectors in the original size detection section are displayed. The active sensors and detectors are highlighted.

OCSW	Original cover state
	Open: Highlighted display
	Close: Normal display
PD1 to 5	Original sensor status
	Original sensor status Without original: Normal display
	With original: Highlighted display

For AB series, PD1 to 5 is displayed, for inch series, PD1 to 4.

SIMULATION 41-1 PD SENSOR CHECK. OCSW PD1 PD2 PD3 PD4 PD5

41-2		
Purpose	Adjustment	
Function	Used to adjust the detection level of the document size	
(Purpose)	photo sensor.	
Section	Others	
Item	Operation	
Operation/procedure		

eration/procedure

Place an A3 (or WLT) document on the document table, and press [START] key with the OC cover open.

The adjustment is performed and the result is displayed.

OCSW	Original cover state
	Open: Highlighted display
	Close: Normal display
1 to 5	PD sensor detection level (Hexadecimal display)

The value in [] shows the threshold value. (Hexadecimal display) For AB series, 1 to 5 is displayed, for inch series, 1 to 4. During execution of the simulation, "EXECUTING" is displayed.

SIMULATION 41-2	
PD SENSOR ADJUNSTMENT. PRESS START.	

Purpose	Operation test/check	
Function	Used to check the light reception level and the	
(Purpose)	detection level of the original size detection photo	
	sensor.	
Section	Others	
Item	Operation	
Operation/procedure		

The detection output level of each sensor is displayed in real time.

OCSW	Original cover state
	Open: Highlighted display
	Close: Normal display
1 to 5	PD sensor detection level (Hexadecimal display)

The value in [] shows the threshold value of 20 degree detection adjustment. (Hexadecimal display)

For AB series, 1 to 5 is displayed, for inch series, 1 to 4.

SIMULATIC	N 41-3		
PD SENSOF	R DATA DISPL	AY.	
ocsw			
1[128]200	2[128]200	3[128]200	
4[128]200	5[128]200		

41-4

Purpose	Adjustment
Function (Purpose)	Used to adjust the detection level of OC 20 degrees.
Section	Others
Item	Operation
	_

Operation/procedure

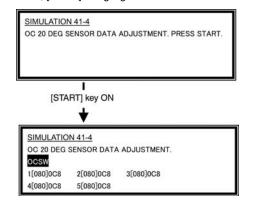
Set the OC cover at 20 degrees detection and press the $\left[\text{START} \right]$ key.

The detection output level of each sensor is displayed in real time.

OCSW	Original cover state
	Open: Highlighted display
	Close: Normal display
1 to 5	PD sensor detection level (Hexadecimal display)

The value in [] shows the threshold value of 20 degree detection adjustment. (Hexadecimal display)

For AB series, 1 to 5 is displayed, for inch series, 1 to 4. During execution, [EXEC] is highlighted.



43

43-1		
Purpose	Setting	
Function	Used to set the fusing temperature in 600dpi, 1200dpi,	
(Purpose)	or postcard print.	
Section	Fixing (Fusing)	
Item	Operation WWW.SERVI	CE-MANUAL.NET

Operation/procedure

1. Touch the item to be set.

2. Enter the set value with the 10-key.

	Item	Content	Setting range	Default
1	600dpi	600dpi	155-200	190 (Europe)/
				175 (Japan, SEC,
				SECL)/
				185 (Others)
2	1200dpi	1200dpi	140-200	165
3	POST CARD	Postcard	155-200	190
4	CARDBOARD	Thick paper	155-200	190

START.			
1: 600dpi	185		18
2: 1200dpi	165		1/
3: POST CARD	190		
4: CARDBOARD	190		_

43-10

Purpose	Setting
Function	Used to set the paper feed cycle timing when printing
(Purpose)	postcards.
Section	Paper feed
Item	Operation
	·

Operation/procedure

Input the set value with the 10-key and press the [START] key.

Setting range	1-99
Default	50

SIMULATION 43-10 POST CARD PICK UP CYCLE SETTING. INPUT VALUE 1-99, AND PRESS START.

50

44

44-1				
Purpose	Setting			
Function Used to make various setups in each mode of p				
(Purpose)	control.			
Section	Image process (Photoconductor/Developing/Transfer/			
	Cleaning)			
Item Operation				

Operation/procedure

Enter the set value with the 10-key, and press the [START] key.

	Item	Content	Default
1 ENVIRONMENT		Environmental correction Allow/	1
	ADJ.	Inhibit (0: Inhibit, 1: Allow)	
2	DUPLEX PRINT ADJ.	Duplex print correction Allow/	0
		Inhibit (0: Inhibit, 1: Allow)	

SIMULATION 44-1 PROCESS CONTROL MODE SETTING. SELECT 1-2, AND PRESS START. 1:ENVIRONMENT ADJ. 2:DUPLEX PRINT ADJ. 0

44-34

Purpose	Setting
	Used to set the transfer current value in each mode.
(Purpose)	

Operation/procedure

1. Touch the item to be set.

2. Enter the set value with the 10-key.

To support an individual necessity in paper and the environment, it is variable in the range of 5 to 30uA in the increment of 1uA in each mode.

When changing +V2, check with +V1 unchanged. If there is any trouble in the half tone image of graphics, keep the relationship between +V1 and +V2 at the default and change it.

When the image quality is deteriorated because the user selects the OHP mode and use other than the recommended OHP, decrease the transfer current to adjust deterioration of black background picture quality. If some of characters are not printed, increase the transfer current.

This setting is changed in linkage with SIM 26-6 destination setting.

*1: SECL/SCA/SEF/EX inch series/EX AB series/EX inch series (FC)/ EX AB series (FC)/China/Taiwan/SEEG2

*2: SEC/SEEG/SUK

	Item	Content	Setting	Def	ault
	item	Content	range	*1	*2
1	+V1F (600)	600dpi normal paper > B5R + V1 single surface. Duplex (Front)	5-30	5	5
2	+V1R (600)	600dpi normal paper > B5R + V1 Duplex (Back)	5-30	5	5
3	+V2F (600)	600dpi normal paper > B5R +V2 single surface. Duplex (Front)	5-30	18	20
4	+V2R (600)	600dpi normal paper > B5R +V2 Duplex (Back)	5-30	14	18
5	+V1S-F (600)	600dpi normal paper ≤ B5R +V1 single surface. Duplex (Front)	5-30	5	5
6	+V1S-R (600)	600dpi normal paper ≤ B5R +V1 Duplex (Back)	5-30	5	5
7	+V2S-F (600)	600dpi normal paper ≤ B5R +V2 single surface. Duplex (Front)	5-30	22	22
8	+V2S-R (600)	600dpi normal paper ≤ B5R +V2 Duplex (Back)	5-30	18	18
9	+V1 THICK (600)	600dpi thick paper > LTR +V1	5-30	5	5
10	+V2 THICK (600)	600dpi thick paper > LTR +V2	5-30	14	14
11	+V1 THICK S (600)	600dpi thick paper ≤ LTR +V1	5-30	5	5
12	+V2 THICK S (600)	600dpi thick paper ≤ LTR +V2	5-30	18	18
13	+V1 THIN (600)	600dpi thin paper > LTR +V1	5-30	5	5
14	+V2 THIN (600)	600dpi thin paper > LTR +V2	5-30	18	18
15	+V1 THIN S (600)	600dpi thin paper ≤ LTR +V1	5-30	5	5

Item		Content	Setting	Def	ault	
	nem	Content	range	*1	*2	
16	+V2 THIN S (600)	600dpi thin paper ≤ LTR +V2	5-30	18	18	
17	+V1 LABEL (600)	600dpi label paper > LTR +V1	5-30	5	5	
18	+V2 LABEL (600)	600dpi label paper > LTR +V2	5-30	18	18	
19	+V1 LABEL S (600)	600dpi label paper ≤ LTR +V1	5-30	5	5	
20	+V2 LABEL S (600)	600dpi label paper ≤LTR +V2	5-30	18	18	
21	+V1 OHP (600)	600dpi OHP > LTR +V1	5-30	5	5	
22	+V2 OHP (600)	600dpi OHP > LTR +V2	5-30	14	14	
23	+V1 OHP S (600)	600dpi OHP ≤ LTR +V1	5-30	5	5	
24	+V2 OHP S (600)	600dpi OHP ≤ LTR +V2	5-30	18	18	
25	+V1 POSTCARD (600)	600dpi postcard/envelope > 100mm +V1	5-30	5	5	
26	+V2 POSTCARD	600dpi postcard/envelope	5-30	26	26	
27	(600) +V1 POSTCARD	> 100mm +V2 600dpi postcard/envelope	5-30	5	5	
28	S (600) +V2 POSTCARD	≤ 100mm +V1 600dpi postcard/envelope	5-30	26	26	
	S (600)	≤ 100mm +V2				
29	+V1F (1200)	1200dpi normal paper > B5R +V1 single surface. Duplex (Front)	5-30	5	5	
30	+V1R (1200)	1200dpi normal paper > B5R +V1 Duplex (Back)	5-30	5	5	
31	:+V2F (1200)	1200dpi normal paper > B5R +V2 single surface.	5-30	12	14	
		Duplex (Front)				
32	+V2R (1200)	1200dpi normal paper > B5R +V2 Duplex (Back)	5-30	10	10	
33	+V1S-F (1200)	1200dpi normal paper \leq B5R +V1 single surface.	5-30	5	5	
		Duplex (Front)				
34	+V1S-R (1200)	1200dpi normal paper ≤ B5R +V1 Duplex (Back)	5-30	5	5	
35	+V2S-F (1200)	1200dpi normal paper ≤	5-30	14	14	
		B5R +V2 single surface. Duplex (Front)				
36	+V2S-R (1200)	1200dpi normal paper ≤ B5R +V2 Duplex (Back)	5-30	12	12	
37	+V1 THICK	1200dpi thick paper > LTR +V1	5-30	5	5	
38	(1200) +V2 THICK	1200dpi thick paper > LTR	5-30	10	10	
39	(1200) +V1 THICK S	+V2 1200dpi thick paper ≤ LTR	5-30	5	5	
40	(1200) +V2 THICK S	+V1 1200dpi thick paper ≤ LTR	5-30	12	12	
41	(1200) +V1 THIN (1200)	+V2 1200dpi thin paper > LTR	5-30	5	5	
42	+V2 THIN (1200)	+V1 1200dpi thin paper > LTR	5-30	12	12	
43	+V1 THIN S	+V2 1200dpi thin paper ≤ LTR	5-30	5	5	
44	(1200) +V2 THIN S	+V1 1200dpi thin paper ≤ LTR	5-30	12	12	
45	(1200) +V1 LABEL	+V2 1200dpi label paper > LTR	5-30	5	5	
	(1200)	+V1				
46	+V2 LABEL (1200)	1200dpi label paper > LTR +V2	5-30	12	12	
	+V1 LABEL S (1200)	1200dpi label paper ≤ LTR +V1	5-30	5	5	
48	+V2 LABEL S (1200) I NET	1200dpi label paper ≤ LTR +V2	5-30	12	12	
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ltem		Content	Setting	Def	ault
	nem	Content	range	*1	*2
49	+V1 OHP (1200)	1200dpi OHP > LTR +V1	5-30	5	5
50	+V2 OHP (1200)	1200dpi OHP > LTR +V2	5-30	8	8
51	+V1 OHP S	1200dpi OHP ≤ LTR +V1	5-30	5	5
	(1200)				
52	+V2 OHP S	1200dpi OHP ≤ LTR +V2	5-30	12	12
	(1200)				
53	+V1 POSTCARD	1200dpi postcard/envelope	5-30	5	5
	(1200)	> 100mm +V1			
54	+V2 POSTCARD	1200dpi postcard/envelope	5-30	16	16
	(1200)	> 100mm +V2			
55	+V1 POSTCARD	1200dpi postcard/envelope	5-30	5	5
	S (1200)	≤ 100mm +V1			
56	+V2 POSTCARD	1200dpi postcard/envelope	5-30	16	16
	S (1200)	≤ 100mm +V2			

SIMULATION 44-34				
TC VALUE SETTING.	INPUT	VALUE 5-30, AND PRESS	STAR	Г.
1: +V1 F (600)	5	2: +V1 R (600)	5	5
3: +V2 F (600)	18	4: +V2 R(600)	14	
5: +V1 S-F(600)	5	6: +V1 S-R(600)	5	1/4
7: +V2 S-F(600)	22	8: +V2 S-R(600)	18	1
9: +V1 THICK(600)	5	10: +V2 THICK(600)	14	\square
11: +V1 THICK S(600)	5	12: +V2 THICK S(600)	18	
13: +V1 THIN(600)	5	14: +V2 THIN(600)	18	ОК

Purpose	Setting
Function	Used to set the DV-Bias/Grid environment (low
(Purpose)	temperature) correction temperature.
a	

Operation/procedure

Enter the set value with the 10-key, and press the [START] key.

Correction is performed when the temperature sensor installed to the MCU indicates 15°C or below.

The content of correction is to raise the DVB-Bias and Grid by -50V.

The simulation allows to vary the correction threshold value in the range of 0 to 20° C.

If, however, the set temperature is increased, correction at a high voltage is performed in normal temperatures.

Setting range	0-20
Default	15°C

SIMULATION 44-35
DVB/GRID ENVIRONMENT TEMPERATURE SETTING. INPUT
VALUE 0-20, AND PRESS START.
15

44-40

Purpose Setting	
Function (Purpose)	Used to set the time from the start of the main motor rotation (Ready) to the start of toner supply in previous
	rotation after turning on the power.

Operation/procedure

Enter the set value with the 10-key, and press the [START] key.

Set the toner supply previous rotation time.

Setting range	1-99 (sec)
Default	4 (sec)

SIMULATION 44-40 TONER ROTATE TIME SETTING. INPUT VALUE 1- 99, AND PRESS START.

46

46-2			
Purpose	Adjustment		
Function	Used to set the exposure level in each exposure mode.		
(Purpose)			
Item	Picture quality	Density	

Operation/procedure

- 1. Touch the item to be adjusted. (Automatic adjustment)
- The currently set value is highlighted beside the adjustment item. 2. Press the [START] key.
 - The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density. Use the 10-key to set the exposure level.
- 4. Press the [START] key. Copying is started.

(Exposure mode)

	Item	Content		Setting range	Default
1	AE	AE		1-99	50
2	TEXT	Character	Level 3.0		
3	TEXT/PHOTO	Character/Photo	Level 3.0		
4	РНОТО	Photo	Level 3.0		
5	SUPER PHOTO	Super photo	Level 3.0		
6	AE(TS)	AE (TS)			
7	TEXT(TS)	Character (TS)	Level 3.0		
8	TEXT/PHOTO(TS)	Character/Photo (TS)	Level 3.0		

^{*} Except for AE and AE (TS), only Level 3 can be set.

Note: When this simulation is canceled, the display returns to the initial menu but the machine is not reset.

1: AE	50	2: TEXT	50	50
3: TEXT/PHOTO	55	4: PHOTO	50	
5: SUPER PHOTO	50	6: AE(TS)	50	1/1
7: TEXT(TS)	50	8: TEXT/PHOTO(TS)	50	[]

46-7			
Purpose	Adjustment		
Function	Used to adjust the shift amount and the inclination		
(Purpose)	value for each level (1 to 5) of the exposure mode		
	(Super Photo).		
Item	Picture quality Density		
Operation/pr	rocedure		

- 1. Touch the item to be adjusted.
- The adjustment item and the currently set value are highlighted. 2. Press the [START] key.
- The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density. Use the 10-key to set the exposure level.
- 4. Press the [START] key.
- 4. Press the [START] ke
- WWW.SERVICE-MA Copying is started.

(Exposure mode (Super Photo))

	Item	Content	Setting	Default
			range	
1	1.0(SHIFT)	Super photo level 1.0 (shift q'ty)	1-99	32
2	1.0(GAMMA)	Super photo level 1.0 (slant)	1-99	50
3	2.0(SHIFT)	Super photo level 2.0 (shift q'ty)	1-99	41
4	2.0(GAMMA)	Super photo level 2.0 (slant)	1-99	50
5	3.0(SHIFT)	Super photo level 3.0 (shift q'ty)	1-99	50
6	3.0(GAMMA)	Super photo level 3.0 (slant)	1-99	50
7	4.0(SHIFT)	Super photo level 4.0 (shift q'ty)	1-99	56
8	4.0(GAMMA)	Super photo level 4.0 (slant)	1-99	61
9	5.0(SHIFT)	Super photo level 5.0 (shift q'ty)	1-99	62
10	5.0(GAMMA)	Super photo level 5.0 (slant)	1-99	66

Note: When this simulation is canceled, the display returns to the initial menu but the machine is not reset.

EXP. LEVEL SET PRESS START.	TUP(SUPER	PHOTO).	INPUT	VALUE	1-99,	AND
1: 1.0(SHIFT)	32	2: 1.0(GA	MMA)		50	32
3: 2.0(SHIFT)	41	4: 2.0(GA	MMA)		50	1/1
5: 3.0(SHIFT)	50	6: 3.0(GA	MMA)		50	1
7: 4.0(SHIFT)	56	8: 4.0(GA	MMA)		61	
9: 5.0(SHIFT)	62	10: 5.0(G	AMMA)		66	Ļ

46-9

Purpose	Adjustment		
Function	Used to adjust the shift amount and the inclination		
(Purpose)	value for each level (1 to 5) of the exposure mode		
	(Text).		
Item	Picture quality	Density	

Operation/procedure

- Touch the item to be adjusted. The adjustment item and the currently set value are highlighted.
- 2. Press the [START] key. The display is shifted to the copy menu.
- Select the paper feed tray and the print density.
- Use the 10-key to set the exposure level.
- 4. Press the [START] key. Copying is started.

(Exposure mode (Text))

	Item	Content	Setting range	Default
1	1.0 (SHIFT)	Character level 1.0 (shift q'ty)	1-99	22
2	1.0 (GAMMA)	Character level 1.0 (slant)	1-99	44
3	2.0 (SHIFT)	Character level 2.0 (shift q'ty)	1-99	36
4	2.0 (GAMMA)	Character level 2.0 (slant)	1-99	47
5	3.0 (SHIFT)	Character level 3.0 (shift q'ty)	1-99	50
6	3.0 (GAMMA)	Character level 3.0 (slant)	1-99	50
7	4.0 (SHIFT)	Character level 4.0 (shift q'ty)	1-99	61
8	4.0 (GAMMA)	Character level 4.0 (slant)	1-99	55
9	5.0 (SHIFT)	Character level 5.0 (shift q'ty)	1-99	72
10	5.0 (GAMMA)	Character level 5.0 (slant)	1-99	60
11	TS 1.0 (SHIFT)	Character (TS) level 1.0 (shift q'ty)	1-99	22
12	1TS 1.0 (GAMMA)	Character (TS) level 1.0 (slant)	1-99	44
13	TS 2.0 (SHIFT)	Character (TS) level 2.0 (shift q'ty)	1-99 WWW.S	36 SERVI

	Item	Content	Setting range	Default
14	TS 2.0 (GAMMA)	Character (TS) level 2.0 (slant)	1-99	47
15	TS 3.0 (SHIFT)	Character (TS) level 3.0 (shift q'ty)	1-99	50
16	TS 3.0 (GAMMA)	Character (TS) level 3.0 (slant)	1-99	50
17	TS 4.0(SHIFT)	Character (TS) level 4.0 (shift q'ty)	1-99	61
18	TS 4.0 (GAMMA)	Character (TS) level 4.0 (slant)	1-99	55
19	TS 5.0 (SHIFT)	Character (TS) level 5.0 (shift q'ty)	1-99	72
20	TS 5.0 (GAMMA)	Character (TS) level 5.0 (slant)	1-99	60

Note: When this simulation is canceled, the display returns to the initial menu but the machine is not reset.

SIMULATION 46-9	TEXT) I	NPUT VALUE 1-99, AND	PRESS	START
1: 1.0(SHIFT)	22	2: 1.0(GAMMA)	44	22
3: 2.0(SHIFT)	36	4: 2.0(GAMMA)	47	_
5: 3.0(SHIFT)	50	6: 3.0(GAMMA)	50	1/2
7: 4.0(SHIFT)	61	8: 4.0(GAMMA)	55	1
9: 5.0(SHIFT)	72	10: 5.0(GAMMA)	60	
11: TS 1.0(SHIFT)	22	12: TS 1.0(GAMMA)	44	\square
13: TS 2.0(SHIFT)	36	14: TS 2.0(GAMMA)	47	ОК

46-10	
Purpose	Adjustment
Function	Used to adjust the shift amount and the inclination
(Purpose)	value for each level (1 to 5) of the exposure mode
	(Text/Photo).
Item	Picture quality
Operation/pr	rocedure

1. Touch the item to be adjusted.

- The adjustment item and the currently set value are highlighted. 2. Press the [START] key.
- The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density. Use the 10-key to set the exposure level.
- 4. Press the [START] key.

Copying is started.

(Exposure mode (Text/Photo))

2 1.0 3 2.0	0 (SHIFT) 0 (GAMMA) 0 (SHIFT)	Character/Photo level 1.0 (shift q'ty) Character/Photo level 1.0 (slant)	range 1-99 1-99	30
3 2.0	· · ·		1-99	07
	(SHIFT)			37
4 2.0		Character/Photo level 2.0 (shift q'ty)	1-99	40
	0 (GAMMA)	Character/Photo level 2.0 (slant)	1-99	43
5 3.0	0 (SHIFT)	Character/Photo level 3.0 (shift q'ty)	1-99	50
6 3.0	0 (GAMMA)	Character/Photo level 3.0 (slant)	1-99	50
7 4.0	0 (SHIFT)	Character/Photo level 4.0 (shift q'ty)	1-99	57
8 4.0	0 (GAMMA)	Character/Photo level 4.0 (slant)	1-99	61
9 5.0	0 (SHIFT)	Character/Photo level 5.0 (shift q'ty)	1-99	64

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Item		Content	Setting range	Default
10	5.0 (GAMMA)	Character/Photo level 5.0 (slant)	1-99	66
11	TS 1.0	Character/Photo (TS) level 1.0	1-99	30
	(SHIFT)	(shift q'ty)		
12	TS 1.0	Character/Photo (TS) level 1.0	1-99	37
	(GAMMA)	(slant)		
13	TS 2.0	Character/Photo (TS) level 2.0	1-99	40
	(SHIFT)	(shift q'ty)		
14	TS 2.0	Character/Photo (TS) level 2.0	1-99	43
	(GAMMA)	(slant)		
15	TS 3.0	Character/Photo (TS) level 3.0	1-99	50
	(SHIFT)	(shift q'ty)		
16	TS 3.0	Character/Photo (TS) level 3.0	1-99	50
	(GAMMA)	(slant)		
17	TS 4.0	Character/Photo (TS) level 4.0	1-99	57
	(SHIFT)	(shift q'ty)		
18	TS 4.0	Character/Photo (TS) level 4.0	1-99	61
	(GAMMA)	(slant)		
19	TS 5.0	Character/Photo (TS) level 5.0	1-99	64
	(SHIFT)	(shift q'ty)		
20	TS 5.0	Character/Photo (TS) level 5.0	1-99	66
	(GAMMA)	(slant)		

Note: When this simulation is canceled, the display returns to the initial menu but the machine is not reset.

SIMULATION 46-10 EXP. LEVEL SETUP(TEXT/PHOTO). INPUT VALUE 1-99, AND PRESS START.					
1: 1.0(SHIFT)	30	2: 1.0(GAMMA)	37	30	
3: 2.0(SHIFT)	40	4: 2.0(GAMMA)	43	1/2	
5: 3.0(SHIFT)	50	6: 3.0(GAMMA)	50		
7: 4.0(SHIFT)	57	8: 4.0(GAMMA)	61		
9: 5.0(SHIFT)	64	10: 5.0(GAMMA)	66	\square	
11: TS 1.0(SHIFT)	30	12: TS 1.0(GAMMA)	37	L.	
13: TS 2.0(SHIFT)	40	14: TS 2.0(GAMMA)	43	ОК	

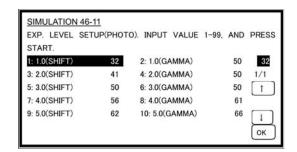
46-11				
Purpose	Adjustment			
Function (Purpose)	Used to adjust the shift amount and the inclination value for each level (1 to 5) of the exposure mode			
Item	(Photo). Picture quality Density			

- **Operation/procedure**
- Touch the item to be adjusted. The adjustment item and the currently set value are highlighted.
- 2. Press the [START] key. The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density. Use the 10-key to set the exposure level.
- 4. Press the [START] key. Copying is started.

(Exposure mode (Photo))

ltem		Content	Setting range	Default
1	1.0(SHIFT)	Photo level 1.0 (shift q'ty)	1-99	32
2	1.0(GAMMA)	Photo level 1.0 (slant)		50
3	2.0(SHIFT)	Photo level 2.0 (shift q'ty)		41
4	2.0(GAMMA)	Photo level 2.0 (slant)		50
5	3.0(SHIFT)	Photo level 3.0 (shift q'ty)		50
6	3.0(GAMMA)	Photo level 3.0 (slant)		50
7	4.0(SHIFT)	Photo level 4.0 (shift q'ty)		56
8	4.0(GAMMA)	Photo level 4.0 (slant)		61
9	5.0(SHIFT)	Photo level 5.0 (shift q'ty)		62
10	5.0(GAMMA)	Photo level 5.0 (slant)		66

Note: When this simulation is canceled, the display returns to the initial menu but the machine is not reset.



46-12				
Purpose	Adjustment			
Function	FAX exposure level adjustment (1 mode automatic			
(Purpose)	adjustment)			
Section	FAX			
Item	Image quality			
Operation/procedure				

Operation/procedure

1. Select "1: COPY START." The currently set value is displayed beside the item.

- 2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
- 3. Press the [START] key.
 - Copying is started and the set value is stored.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

Item		Setting range	Default	
1	COPY START	-	-	
2	FAX EXP.LEVEL	0-99	50	

Note: Executable only when the FAX is installed.

SIMULATION 46-12
EXP.LEVEL SETUP FAX(AUTO SET). SELECT 1-2, AND PRESS START.
1. COPY START 2. FAX EXP. LEVEL : 50

46-13

Purpose Adjustment	
Function FAX exposure level adjustment (Normal mode	
(Purpose) individual adjustment)	
Section	FAX
Item	Image quality

Operation/procedure

1. Select "1: COPY START."

The currently set value is displayed beside the item.

- 2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
- Press the [START] key. Copying is started and the set value is stored.

Norm	al display	NOW PRINTING		
Error	display	DOOR OPEN		
		JAM		
		PAPER EMPTY		

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

AR-M236/M276/M237/M277 SIMULATION 8 - 33

	Item	Content	Setting range	Default
1	COPY START	Copy start	-	-
2	EXP.LEVEL	Exposure level		
		selection	0.00	50
3	AE	Normal text AE	0-99	50
4	MANUAL	Normal text MANUAL		

Note: Executable only when the FAX is installed.

SIMULATION 46-1	3				
EXP. LEVEL SETUP	FAX (NO	RMAL).	SELECT	1-4,	AND PRESS START.
1. COPY START					- 1
2. EXP. LEVEL	:	3			L
3. AE	:	50			
4. MANUAL	:	50			
		_			

46-14

Purpose	Adjustment			
Function	FAX exposure level adjustment (Fine text mode			
(Purpose)	individual adjustment)			
Section	FAX			
Item	Image quality			
Operation/procedure				

- 1. Select "1: COPY START."
- The currently set value is displayed beside the item.
- 2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
- 3. Press the [START] key.

Copying is started and the set value is stored.

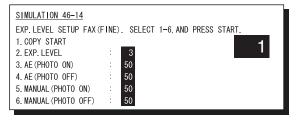
Normal display	NOW PRINTING	
Error display	DOOR OPEN	
	JAM	
	PAPER EMPTY	

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

Item		Content	Setting range	Default
1	COPY START	Copy start	-	-
2	EXP.LEVEL	Exposure level selection		
3	AE (PHOTO ON)	Fine text AE (Half tone)		
4	AE (PHOTO OFF)	Fine text AE	0-99	50
5	MANUAL (PHOTO ON)	Fine text MANUAL (Half tone)	0-99	50
6	MANUAL (PHOTO OFF)	Fine text MANUAL		

Note: Executable only when the FAX is installed.



46-15

Purpose	Adjustment
Function	FAX exposure level adjustment (Super Fine mode
(Purpose) individual adjustment)	
Section	FAX
Item	Image quality

Operation/procedure

1. Select "1: COPY START." The currently set value is displayed beside the item.W. SERVICE-MANUAL.NET

- 2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
- 3. Press the [START] key.

Copying is started and the set value is stored.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

Item		Content	Setting range	Default
1	COPY START	Copy start	-	-
2	EXP.LEVEL	Exposure level selection		50
3	AE (PHOTO ON)	Super Fine AE (Half tone)		
4	AE (PHOTO OFF)	Super Fine AE	0 - 99	
5	MANUAL (PHOTO ON)	Super Fine MANUAL (Half tone)	0 - 99	50
6	MANUAL (PHOTO OFF)	Super Fine MANUAL		

Note: Executable only when the FAX is installed.

SIMULATION 46-15						
EXP. LEVEL SETUP FAX (SU	PER	FINE).	SELECT	1 - 6, AND	PRESS	START.
1. COPY START						1
2. EXP. LEVEL	:	3				
3. AE (PHOTO ON)	:	50				
4. AE (PHOTO OFF)	:	50				
5. MANUAL (PHOTO ON)	:	50				
6. MANUAL (PHOTO OFF)	:	50				
	EXP. LEVEL SETUP FAX (SU 1. COPY START 2. EXP. LEVEL 3. AE (PHOTO ON) 4. AE (PHOTO OFF) 5. MANUAL (PHOTO ON)	EXP. LEVEL SETUP FAX (SUPER 1. COPY START 2. EXP. LEVEL 3. AE (PHOTO ON) 4. AE (PHOTO OFF) 5. MANUAL (PHOTO ON)	SETUP FAX (SUPER FINE). 1. COPY START 3 2. EXP. LEVEL : 3 3. AE (PHOTO ON) : 50 4. AE (PHOTO OFF) : 50 5. MANUAL (PHOTO ON) : 50	EXP. LEVEL SETUP FAX (SUPER FINE). SELECT 1. COPY START 2. EXP. LEVEL : 3. AE (PHOTO ON) : 4. AE (PHOTO OFF) : 5. MANUAL (PHOTO ON) : 5. O	EXP. LEVEL SETUP FAX (SUPER FINE). SELECT 1-6, AND 1. COPY START 2. EXP. LEVEL 3. AE (PHOTO ON) 5. MANUAL (PHOTO ON) 50	EXP. LEVEL SETUP FAX (SUPER FINE). SELECT 1-6, AND PRESS 1. COPY START 2. EXP. LEVEL 3. AE (PHOTO ON) 5. 4. AE (PHOTO OFF) 5. 5. MANUAL (PHOTO ON) 5.

46-16

Purpose	Adjustment				
Function	FAX exposure level adjustment (Ultra Fine mode				
(Purpose) individual adjustment)					
Section	FAX				
Item	Image quality				
Operation/n	Operation/procedure				

Operation/procedure 1. Select "1: COPY START."

- The currently set value is displayed beside the item.
- 2. Enter the set value of the exposure level with the 10-key, and press the [#/P] key.
- 3. Press the [START] key.

Copying is started and the set value is stored.

Normal display	NOW PRINTING		
Error display	DOOR OPEN		
	JAM		
	PAPER EMPTY		

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

ltem		Content	Setting range	Default
1	COPY START	Copy start	-	-
2	EXP.LEVEL	Exposure level selection		
3	AE (PHOTO ON)	Ultra Fine AE (Half		
		tone)		
4	AE (PHOTO OFF)	Ultra Fine AE	0 - 99	50
5	MANUAL	Ultra Fine MANUAL	0-33	50
	(PHOTO ON)	(Half tone)		
6	MANUAL (PHOTO OFF)	Ultra Fine MANUAL	Ţ	

Note: Executable only when the FAX is installed.

SIMULATION 46-16 EXP. LEVEL SELECT 1-6, AND PRESS START. 1. COPY START 3 3 AE (PHOTO ON) 50 4. AE (PHOTO OFF) 50 5. MANUAL (PHOTO ON) 50 50 50 50 50

46-18

Purpose	Adjustment
Function	Used to adjust inclination for each exposure mode.
(Purpose)	
Item	Picture quality
	-

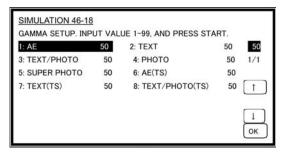
Operation/procedure

- 1. Touch the item to be adjusted. The adjustment item and the current set value are highlighted.
- 2. Press the [START] key. The display is shifted to the copy menu.
- Select the paper feed tray and the print density. Set the exposure level with the 10-key.
- 4. Press the [START] key. Copying is started.

(Auto adjustment)

	Item	Content		Setting range	Default
1	AE	AE		1-99	50
2	TEXT	Character	Level 3.0		
3	TEXT/PHOTO	Character/Photo	Level 3.0		
4	PHOTO	Photo	Level 3.0		
5	SUPER PHOTO	Super photo	Level 3.0		
6	AE(TS)	AE(TS)			
7	TEXT(TS)	Character (TS)	Level 3.0		
8	TEXT/PHOTO(TS)	Character/Photo (TS)	Level 3.0		

Note: When this simulation is canceled, the display returns to the initial menu but the machine is not reset.



46-19

Purpose	Adjustment
Function	Used to set the control method of the exposure mode.
(Purpose)	
Item	Picture quality

Operation/procedure

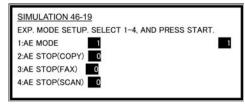
- 1. Touch the item to be adjusted. The currently set value is highlighted be
- The currently set value is highlighted beside the adjustment item. 2. Press the [START] key.
- The display is shifted to the adjustment value entry menu.
- 3. Enter the adjustment value with the 10-key, and press the [START] key.

When the [CUSTOM SETTINGS] key is pressed, the display returns to the original state (adjustment item selection menu).

	Item	Content	Default
1	AE MODE	Auto exposure mode*	2
	(1:EXPOSURE	(1: Priority on Image quality,	
	2:TONER)	2: Priority on toner consumption)	
2	AE STOP(COPY)	Auto exposure STOP mode	0
	(0:FIXED	(COPY)	
	1:REAL TIME)	(0: Fixed, 1: Real-time)	
3	AE STOP(FAX)	Auto exposure STOP mode (FAX)	0
	(0:FIXED	(0: Fixed, 1: Real-time)	
	1:REAL TIME)		
4	AE STOP(SCAN)	Auto exposure STOP mode	0
	(0:FIXED	(SCANNER)	
	1:REAL TIME)	(0: Fixed, 1: Real-time)	

* Auto exposure mode

- When SIM 26-6 (Destination setup) is changed from EX Japan to Japan, the setup value becomes 1 (Default: Japan). If, on the contrary, it is changed from Japan to EX Japan, the set value becomes 2 (Default: EX Japan)
- If the auto exposure mode setup value is changed, the setup value of SIM 46-30 (AE limit setup) is reset to the default value.



46-20		
Purpose	Adjustment	
Function (Purpose)	Used to set the exposure correction value of SPF/ RSPF for OC exposure.	
Item	Picture quality	
Operation/procedure		

- 1. Touch the item to be adjusted. The adjustment item and the currently set value are highlighted.
- 2. Enter the set value with the 10-key.

			,	
	Item	Content	Setting range	Default
1	SPF EXPOSURE	SPF	1-99	53
2	RSPF EXPOSURE	RSPF		

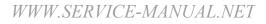
	ENT. SELECT 1-99, AND PRESS START.	
1: SPF EXPOSURE	53	
2: RSPF EXPOSURE	53	
		1
		L
		_

46-30

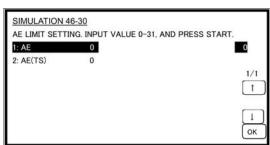
40-30			
Purpose	Setting		
Function	Used to set the AE and the limit value in AE (Toner		
(Purpose)	save).		
Operation/procedure			

- 1. Touch the item to be adjusted.
 - The adjustment item and the currently set value are highlighted.
- 2. Enter the set value with the 10-key.

If SIM 26-6 (Destination setup) and SIM46-19 (Auto exposure mode) are changed, this setup is also changed to the default value accordingly.



	Item	Setting range	Default
1	AE	0-31	0
2	AE(TS)		

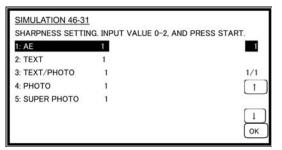


PurposeSettingFunctionUsed to set the AE and the limit value in AE (Toner
save).

Operation/procedure

- 1. Touch the item to be adjusted.
- The adjustment item and the currently set value are highlighted.
 Enter the set value with the 10-key.

	Item	Setting range	Default
1	AE		
2	TEXT		
3	TEXT/PHOTO	0 - 2	1
4	PHOTO		
5	SUPER PHOTO		



46-39					
Pu	rpose	se Setting			
	Function Used to switch the FAX send image quality.				
(Pi	urpose)				
Enter the set value with the 10-key.					
	Item		Content	Setting range	Default
0	HAIRLIN	Ē	Original with pencil lines		
			and thin lines	0 - 1	0
1	PRINTE	R	Printed original		

SIMULATION 46-39
FAX DOCUMENT TYPE SETTING. SELECT 0-1, AND PRESS
START.
0:HAIRLINE 0
1:PRINTED

48	

48-1				
Purpose	Adjustment			
Function Used to adjust the copy mode magnification ratio (ma				
(Purpose) scanning direction, sub scanning direction).				
Section	Image processing			
Item	Picture quality			
Operation/pr	rocedure			

1. Touch the item to be set. The item and the currently set value are highlighted.

- 2. Press the [START] key. The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density, and enter the adjustment value with the 10-key.
- 4. Press the [START] key.

Copying is started.

Item		Content	Setting range	Default
1	F-R	Main scanning magnification	1-99	50
		ratio adjustment		
2	SCAN	Sub scanning magnification		60
		ratio adjustment		
3	SPF/RSPF	SPF/RSPF surface sub scan		50
	(SIDE1)	magnification ratio		
4	SPF/RSPF	SPF/RSPF back surface sub		
	(SIDE2)	scan magnification ratio		
5	DUPLEX	DUPLEX sub scanning		
		magnification ratio adjustment		

Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.

SIMULATION 48- COPY MAGNIFIC/ PRESS START.	TION ADJUSTMENT. IN	PUT VALUE 1-99, AND
1: F-R	50	50
2: SCAN	60	1/1
3: SPF(SIDE1)	50	
4: SPF(SIDE2)	50	
5: DUPLEX	50	ц ок

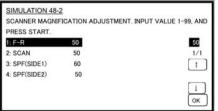
48-2	
Purpose	Adjustment
Function Used to adjust the scanner mode magnification ratio	
(Purpose)	(main/sub scanning direction).
Section	Image processing
Item	Picture quality

Operation/procedure

1. Touch the item to be set. The item and the currently set value are highlighted.

- 2. Press the [START] key.
 - The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density, and enter the adjustment value with the 10-key.
- 4. Press the [START] key. Copying is started.

	Item	Content	Setting range	Default
1	F-R	Main scanning magnification 1-99 ratio adjustment		50
2	SCAN	Sub scanning magnification ratio adjustment		
3	SPF (SIDE1)	RSPF surface sub scan magnification ratio		
4	SPF (SIDE2)	RSPF back surface sub scan magnification ratio		



Purpose	Adjustment
Function FAX magnification adjustment (read)	
(Purpose)	
Section	FAX
Related soft SW	SW112-1 to 8, SW113-1 to 8

Operation/procedure

- 1. Select "1: COPY START."
 - The currently set value is highlighted beside the item.
- 2. Enter the set value of magnification with the 10-key, and press the [#/P] key.
- 3. Press the [START] key.

Copying is started and the set value is stored.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no operation of tray selection.

The optimum paper tray for the scanned size is selected.

Even when the SPF/RSPF is selected, if there is no original on the SPF/RSPF, the OC is scanned.

Even when the OC is selected, if there is any original on the SPF/ RSPF, the SPF/RSPF is scanned. (Setting 2)

	Catting					
	Item	Content	Setting range	Default		
1	COPY START	Copy start	-	-		
2	SCAN SELECT (OC/SPF/RSPF)	Scan selection (OC/ SPF/ RSPF)	1-255*	128		
3	OC(MAIN)	SCAN Main scanning magnification ratio adjustment (OC)	1-255*	128		
4	OC(SUB)	SCAN Sub scanning magnification ratio adjustment (OC)	1-255*	128		
5	SPF(MAIN)	SCAN Main scanning magnification ratio adjustment (SPF)	1-255*	128		
6	SPF(SUB)	SCAN Sub scanning magnification ratio adjustment (SPF)	1-255*	128		
7	RSPF(MAIN)	SCAN Main scanning magnification ratio adjustment (RSPF)	1-255*	128		
8	RSPF(SUB)	SCAN Sub scanning magnification ratio adjustment (RSPF)	1-255*	128		

Note: Executable only when the FAX is installed.

SIMULATION 48-8		
MAGNIFICATION ADJUSTMENT	(SC	CAN). SELECT 1-8, AND PRESS START.
1. COPY START		2
2. SCANSELECT (OC/SPF/RSPF):	1
3. OC (MAIN)	:	128
4. OC (SUB)	:	128
5. SPF (MAIN)	:	128
6. SPF (SUB)	:	128
7. RSPF (MAIN)	:	128
8. RSPF (SUB)	:	128

48-9

Purpose	Adjustment			
Function (Purpose)	FAX magnification adjustment (print)			
Section	FAX			

Operation/procedure

- Select "1: COPY START."
 - The currently set value is displayed beside the item.
- 2. Press the [START] key. Copying is started and the set value is stored.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

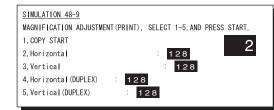
There is no operation of tray selection.

The optimum paper tray for the scanned size is selected.

When two pages are scanned, duplex printing is made.

	Item	Content	Setting range	Default
1	COPY START	Copy start	1-255	128
2	Horizontal	Print magnification ratio adjustment (Horizontal, vertical to paper passing)	1-255	128
3	Vertical	Print magnification ratio adjustment (Vertical, parallel to paper passing)	1-255	128
4	Horizontal (DUPLEX)	Print magnification ratio adjustment on the back surface (Horizontal, vertical to paper passing)	1-255	128
5	Vertical (DUPLEX)	Print magnification ratio adjustment on the back surface (Vertical, parallel to paper passing)	1-255	128

Note: Executable only when the FAX is installed.



50

50-1			
Purpose	Adjustment		
Function	Used to adjust the copy lead edge position.		
(Purpose)			
Item	Picture quality Image position		

* The adjustment can be made in the range of -12.7% +12.7% by the increment of 0.1%.

Operation/procedure

- Touch the item to be adjusted. The item and the currently set value are highlighted.
- Enter the adjustment value with the 10-key and press the [P] key., The display goes to the copy menu. When the [START] key is pressed, the display goes to the copying state and print is started.

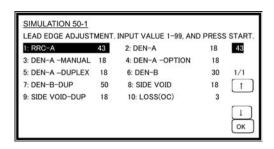
(When the [P] key is pressed: Copy menu)

- 3. Select the paper feed tray and the print density.
- Enter the exposure level with the 10-key.
- 4. Press the [START] key. Copying is started.
- Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.

(Adjustment procedure)

- 1. Note down the adjustment value of SIM 50-5 (Items 1, 2, 3, 4), and change the value to 99.
- 2. Set SIM 50-1 (Items 2, 3, 4, 5) to 1. (By setting to 1, there is no void.)
- 3. Place a chart with a clear lead edge (or a ruler) on the OC document table.
- Use SIM 50-1 (Item 1) to execute test print. Check the print out and adjust so that the lead edge image is printed. (1 - 99: About 0.127mm/Step)
- Reset the adjustment values of SIM 50-5 (Items 1, 2, 3, 4) to the original values, and execute test print. Check the print out and adjust so that the lead edge image is printed on the lead edge of paper. (1 - 99: About 0.127mm/Step).
- 6. Adjust SIM 50-1 (Items 2, 3, 4, 5) so that the lead edge void on the print out is the specified value. (1 99: About 0.127mm/Step)
- 7. Similar to procedure 6, adjust SIM 50-1 (Item 6, 7) so that the rear edge void is the specified value. (1 99: About 0.127mm/Step)
- Similar to procedure 6, adjust SIM 50-1 (Item 8, 9) so that the left edge void is the specified value. (1 - 99: About 0.127mm/Step)
- 9. Make an enlargement copy (400%), and check that there is no shade of the cabinet printed at the lead edge.
- 10. If there is a shade printed at the lead edge in procedure 9, adjust SIM 50-1 (Item 10). (1 5: About 0.677mm)
 * If there is no problem, set to 2.

-				
	ltem	Content	Setting range	Default
1	RRC-A	Original scan start position adjustment Lead edge position	1-99	43
		adjustment value (OC)		
2	DEN-A	Lead edge cancel adjustment (Main cassette)	1-99	18
3	DEN-A-MANUAL	Lead edge cancel adjustment (Manual feed cassette)	1-99	18
4	DEN-A -OPTION	Lead edge cancel adjustment (Option cassette)	1-99	18
5	DEN-A -DUPLEX	Lead edge cancel adjustment (back of the machine)	1-99	18
6	DEN-B	Rear edge void adjustment	1-99	30
7	DEN-B-DUP	Rear edge void adjustment (Duplex)	1-99	50
8	SIDE VOID	Left edge void adjustment (First print surface)	1-99	18
9	SIDE VOID-DUP	Left edge void adjustment (Duplex)	1-99	18
10	LOSS(OC)	Image loss amount adjustment (Lead edge image loss set value) (OC)	1-5	3



50-5			
Purpose	Purpose Adjustment		
Function	Used to adjust the print image position (top margin) on		
(Purpose)	the print paper in the print mode.		
Item	Picture quality Print area		

Operation/procedure

1. Touch the item to be adjusted. The item and the currently set value are highlighted.

 Enter the adjustment value with the 10-key and press the [P] key., The display goes to the copy menu.
 When the [START] key is pressed, the display goes to the copying state and print is started.

(When the [P] key is pressed: Copy menu)

- 3. Select the paper feed tray and the print density. Enter the exposure level with the 10-key.
- 4. Press the [START] key. Copying is started.
- Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.

	Item	Content	Setting range	Default
1	TRAY1	1st cassette	0-99	53
2	OPTION	Option cassette	1-99	
3	MANUAL	Manual feed		
4	DUPLEX	Back print		

	USTMENT(PRINT). INPUT	VALUE 0-99, AND PRE
START. 1: TRAY1	53	53
2: OPTION	53	1/1
3: MANUAL	53	1
4: DUPLEX	53	

50-6			
Purpose	Adjustment		
Function	Used to adjust the print image position (top margin) on		
(Purpose)	print paper in the copy mode. (SPF/RSPF)		
Item	Picture quality Image position		
Oneration/nr	loooduro		

Operation/procedure

- 1. Touch the item to be adjusted. The item and the currently set value are highlighted.
- Enter the adjustment value with the 10-key and press the [P] key., The display goes to the copy menu.
 When the [START] key is pressed, the display goes to the copying state and print is started.

(When the [P] key is pressed: Copy menu)

- 3. Select the paper feed tray and the print density. Enter the exposure level with the 10-key.
- 4. Press the [START] key.

Copying is started.

Note: When this simulation is canceled, the display is shifted to the ini-WWW.SERVICE-MANtial menu, but the machine is not reset.

	Item	Content	Setting range	Default
1	SIDE1	Surface original scan start position adjustment value	1-99	50
2	SIDE2	Back original scan start position set value	1-99	50
3	END EDGE	Rear edge void adjustment value (SPF/ RSPF)	1-99	50
4	LOSS(SIDE1)	Surface image loss quantity set value	1-5	3
5	LOSS(SIDE2)	Back image loss quantity set value	1-5	3
6	REARLOS(SIDE1)	Surface rear edge image loss quantity set value	1-5	3
7	REARLOS(SIDE2)	Back rear edge image loss quantity set value	1-5	3

SIMULATION 50-6

SIMULATION 50-6			
LEAD EDGE ADJUS	TMENT(SPF/RS	PF). INPUT VALUE	1-99, AND
PRESS START.			
1: SIDE1	50		50
2: SIDE2	50		1/1
3: END EDGE	50		1
4: LOSS(SIDE1)	3		
5: LOSS(SIDE2)	3		
6: REARLOS(SIDE1)	3		OK
7. REARLOS(SIDE2)	3		

50-8

The adjustments on the machine side must have been normally completed.

Purpose	Adjustment
Function (Purpose)	FAX lead edge adjustment (read)
Section	FAX

Operation/procedure

- 1. Select "1: COPY START."
- The currently set value is highlighted beside the item.
- 2. Enter the correction value with the 10-key, and press the $\left[\#/P\right]$ key.
- 3. Press the [START] key.

Copying is started.

Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

4. Select the scanning method.

Even when the SPF/RSPF is selected, if there is no original on the SPF/RSPF, the OC is scanned.

Even when the OC is selected, if there is any original on the SPF/ RSPF, the SPF/RSPF is scanned. (Setting 2)

	Item	Content	Setting range	Default
1	COPY START	Copy start	-	-
2	SCAN SELECT (OC/ SPF/RSPF)	Scan selection (1: OC, 2: SPF, 3: RSPF back)	1-3	1
3	LEAD	Scan lead edge position adjustment value of the selected method in 2.	43-57	50
4	LEFT	Scan left edge position adjustment value of the selected method in 2.	43-57	50

	Item	Content	Setting range	Default
5	REAR	Scan rear edge position adjustment value of the selected method in 2.	43-57	50
6	RIGHT	Scan right edge position adjustment value of the selected method in 2.	43-57	50

Note: Executable only when the FAX is installed.

SIMULATION 50-8		
FAX SCAN IMAGELOSS ADJUSTMENT. SELECT 1-6, AND	PRESS START.	
1. COPY START	2	
2. SCAN SELECT (0C/SPF/RSPF) : 1		
3. LEAD	50	
4. LEFT	: 50	
5. REAR	50	
L		

50-9

Purpose	Adjustment
Function (Purpose)	FAX lead edge adjustment (print)
Section	FAX

Operation/procedure

- 1. Select "1: COPY START."
 - The currently set value is highlighted beside the item.
- 2. Press the [START] key. Copving is started.

copying is started.	
Normal display	NOW PRINTING
Error display	DOOR OPEN
	JAM
	PAPER EMPTY

There is no tray selection operation.

The optimum paper tray for the scanned size is selected.

When two pages are scanned, duplex print is made,

	Item	Content	Setting range	Default
1	COPY START	Copy start	-	-
2	LEAD	Print lead edge void adjustment value (Front surface)	43-57	50
3	LEFT	Print left edge void adjustment value (Front surface)	43-57	50
4	REAR	Print rear edge void adjustment value (Front surface)	43-57	50
5	LEAD (DUPLEX)	Print lead edge void adjustment value (Back surface)	43-57	50
6	LEFT (DUPLEX)	Print left edge void adjustment value (Back surface)	43-57	50
7	REAR (DUPLEX)	Print rear edge void adjustment value (Back surface)	43-57	50

Note: Executable only when the FAX is installed.

SIMULATION 50-9	<u>)</u>		
FAX PRINT VOID	ADJUSTMENT.	SELECT 1-7, A	ND PRESS START.
1. COPY START			1
2. LEAD	: 50		
3. LEFT	: 50		
4. REAR	: 50		
5. LEAD (DUPLEX)	: 50		
6. LEFT (DUPLEX)	: 50		
7. REAR (DUPLEX)	: 50		

Purpose	Adjustment	
Function (Purpose)	Used to adjust the print image center position. (Adjustment can be made for each paper feed section.)	
Section	Image processing (ICU)	
Item	Picture quality Image position	

Operation/procedure

- 1. Touch the item to be adjusted.
 - The item and the currently set value are highlighted.
- Enter the adjustment value with the 10-key and press the [P] key., The display goes to the copy menu.

When the [START] key is pressed, the display goes to the copying state and print is started.

(When the [P] key is pressed: Copy menu)

- 3. Select the paper feed tray and the print density. Enter the exposure level with the 10-key.
- 4. Press the [START] key. Copying is started.

Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.

	Item	Content	Setting range	Default
1	BYPASS	Manual feed	1-99	50
2	TRAY1	1st cassette		
3	TRAY2	2nd cassette		
4	TRAY3	3rd cassette		
5	TRAY4	4th cassette		
6	DUPLEX	Back print		

SIMULATION 50 PRINT OFF-CE PRESS START.	NTER ADJUSTMENT. INPUT VALUE 1-99,	AND
1: BYPASS	50	50
2: TRAY1	50 1	/1
3: TRAY2	50	1
4: TRAY3	50	
5: TRAY4	50	
6: DUPLEX	50	ок)

50-12

Purpose	Adjustment	
Function	Used to adjust the print image center position.	
(Purpose)	(Adjustment can be made for each document mode.)	
Section	Image processing	
Item	Picture quality	Image position

Operation/procedure

- 1. Touch the item to be adjusted.
- The item and the currently set value are highlighted.
- 2. Enter the adjustment value with the 10-key and press the [P] key., The display goes to the copy menu.

When the [START] key is pressed, the display goes to the copying state and print is started.

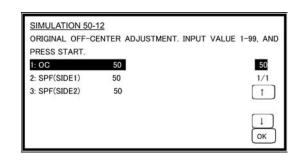
(When the [P] key is pressed: Copy menu)

- Select the paper feed tray and the print density. Enter the exposure level with the 10-key.
- 4. Press the [START] key.

Copying is started.

Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.

	Item	Content	Setting range	Default
1	OC	OC	1-99	50
2	SPF(SIDE1)	SPF front surface		
3	SPF(SIDE2)	SPF back surface		



51

51-1		
Purpose	Adjustment	
Function Used to adjust the OPC drum separation pawl ON		
(Purpose)	time.	
Section	Image process (Photoconductor/Developing/Transfer/	
Cleaning)		
Item Operation		
Operation/procedure		

Operation/procedure

- . Touch the item to be adjusted. The item and the currently set value are highlighted.
- 2. Enter the adjustment value with the 10-key.

	Item	Setting range	Default
1	600dpi	1-99	50
2	1200dpi		

1: 600dpi	50	5
2: 1200dpi	50	
		1/
		-

51-2	
Purpose	Adjustment
Function (Purpose)	Used to adjust the contact pressure of paper onto the resist roller in each section (copier paper feed section, duplex paper feed section, SPF/RSPF paper feed section). (When the print image position varies greatly for the paper or when a lot of paper jam troubles occur, the adjustment is required.)
Section	Paper transport (Discharge/Switchback/Transport)
Item	Operation

Operation/procedure

- 1. Touch the item to be adjusted. The item and the currently set value are highlighted.
- 2. Press the [START] key. The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density.
- Enter the adjustment value with the 10-key. 4. Press the [START] key.
- Copying is started.
- Note: When this simulation is canceled, the display is shifted to the initial menu, but the machine is not reset.

	Item	Content	Setting range	Default
1	BYPASS	Manual feed	1-99	50
2	TRAY1	1st cassette	1-99	70
3	TRAY2	2nd cassette	1-99	50
4	TRAY3	3rd cassette	1-99	50
5	TRAY4	4th cassette	1-99	50
6	DUPLEX	Back print	1-99	70
7	SPF(SIDE1)	SPF front surface	1-99	50
8	SPF(SIDE2)	SPF back surface	1-99	50

SIMULATION 51- RESIST TIMING A		ent. Input value	1-99, AND PRESS
1: BYPASS	50	2: TRAY1	70 50
3: TRAY2	50	4: TRAY3	50 1/1
5: TRAY4	50	6: DUPLEX	70 T
7: SPF(SIDE1)	50	8: SPF(SIDE2)	50
			Ц ок

_	
Purpose	Setting
Function	Used to set the OPC drum separation pawl operation
(Purpose)	inhibit. (ON/OFF)
Section	Image process (Photoconductor/Developing/Transfer/
	Cleaning)
Item	Operation

Operation/procedure

Select the set value with the 10-key.

Item		Content	Setting range	Default
0	ON	Enable	0-1	0
1	OFF	Disable		

SIMULAT	ION 51-8					
DETACH	FINGER	SETTING.	SELECT	0-1,	AND	PRESS
START.						
0:ON						1
1:OFF						

|--|

Purpose	Setting
Function	Used to adjust the OPC drum separation voltage ON/
(Purpose)	OFF timing.
Section	Process (OPC drum, developing, transfer, cleaning)
Item	Operation

Operation/Procedure

1. Touch the item to be adjusted.

The item and the currently set value are highlighted.

2. Enter the set value with the 10-key.

	Item	Content	Setting range	Default
1	SHV ON	Separation voltage ON timing * Transfer V2ON reference (Synchronized with the adjustment value of 50.)	25-90	50
2	SHV OFF	Separation voltage OFF timing * Transfer V2OFF reference (Synchronized with the adjustment value of 50.)	50-90	75

SIMULATION 51	 PUT VALUE 25-90, AND PR	ESS START.
1: SHV ON	50	50
2: SHV OFF	50	
		1/1
		[1
		_
		1

53

53-6		
Purpose	Adjustment	
Function	Used to adjust the detection level of the SPF/RSPF	
(Purpose)	width. The adjustment method is the 4-point system.	
	Set the guide to Max. (A3/WLetter) position, A4R/	
Letter R position, A5R/Invoice R position, and Min		
	position for adjustment.	
Section	SPF/RSPF	

Operation/Procedure

(Max. position setting)

1. Set the guide to the maximum position, and press the [START] key.

Set WLetter and fit the guide, and press the [START] key.

- 2. Set A4R/Letter R and fit the guide, and press the [START] key.
- 3. Set A5R/Invoice R and fit the guide, and press the [START] key.
- 4. Set the guide to the minimum position, and press the [START] key.
- 5. Set the paper recognition width (+), and press the [START] key.
- 6. Set the paper recognition width (-), and press the [START] key.

If "FAILED" is displayed in the above procedure 1, 2, 3, or 4, repeat the adjustment.

(Middle position L/S setting)

If the middle position adjustment is not required, press the [START] key without changing the guide position.

Middle position	YES	MID-L ADJ.ON
adjustment L	NO	MID-L ADJ.OFF
Middle position	YES	MID-S ADJ.ON
adjustment S	NO	MID-S ADJ.OFF

AB series

Inch series

53-7 Purpose Adjustment Function Used to enter the SPF/RSPF width detection (Purpose) adjustment value. Section SPF/RSPF Operation/Procedure

Operation/Procedure

- 1. Touch the item to be adjusted.
 - The item and the currently set value are highlighted.
- 2. Enter the SPF/RSPF original tray size adjustment value (specified on the back of the SPF/RSPF) with the 10-key.

		Item	Content	Setting range	Default
-	1	MAX POSITION	Max. width	0 - 999	0
2	2	POSITION 1	Adjustment point 1		
3	3	POSITION 2	Adjustment point 2		
4	4	MIN POSITION	Min. width		

SIMULATION 53-7 SPF TRAY ADJUS PRESS START.	TMENT(MANUAL).	INPUT	VALUE	0-999,	AND
1: MAX. POSITION	0				0
2: POSITION1	0				1/1
3: POSITION2	0				
4: MIN. POSITION	0				_
					↓ (ок

53-8	
Purpose	Adjustment
Function (Purpose)	Used to adjust the SPF/RSPF scan position of the mirror unit automatically. For the SPF/RSPF scan position automatic adjustment, the mirror unit is shifted to 11mm before the SPF/RSPF glass cover edge, and is operated automatically to scan images by the unit of 1 step, detecting the position up to the glass cover automatically. (Adjustment value) Default: 50, Adjustment range: 1 - 99 Adjustment unit: 1 = about 0.12mm

Operation/Procedure

With the SPF/RSPF or the OC cover open, put a black background chart on the OC glass (the SPF/RSPF glass surface is included for the SPF/RSPF standard model), and press the [START] key.

If the adjustment is executed normally, the adjustment value is displayed and saved in the EEPROM. If an error occurs, "ERR" is displayed and the value is not saved in the EEPROM.

If the adjustment is not performed because of abnormality, "---" is displayed.

During execution of the adjustment, the operation cannot be interrupted.

SIMULATION 53	-8		
SPF SCANNING START.	POSITION	ADJUSTMENT(AUTO).	PRESS



61-1		
Purpose	Operation test/check	
Function	Used to check the LSU (polygon motor) operation.	
(Purpose)		
Section	LSU	
Item	Operation	

Operation/procedure

Press the [START] key, and the LSU test is performed.

Used to set the LSU to ON state and check that the sync signal (HSYNC/) is outputted or not.

After operation for 30 sec, the result is displayed. (Interruption cannot be made for 5 sec after starting the operation.)

<u>SIMULATION 61-1</u> LSU TEST. PRESS START.

63

63-1		
Purpose	Adjustment/setting/operation data output/check (display/print)	
Function (Purpose)	Used to check the result of shading correction. (The shading correction data are displayed.)	
Section	Scanner (Exposure)	
Item	Operation	

Operation/procedure

Pressing the [START] key performs shading, and displays the result (center pixel).

SIMULATION 63-1 SHADING DATA DISPLAY. PRESS START.

63-7		
Purpose	Adjustment	
Function	Used to adjust the SPF/RSPF white correction start	
(Purpose) pixel position automatically.		
	This adjustment is performed after the lens unit is	
	replaced.	
Section	Scanner	
Item	Operation	

Operation/procedure

Set the SPF/RSPF unit OPEN, and press the [START] key.

[] indicates the order number of the pixel of the white sheet for SPF/ RSPF exposure correction in the SPF/RSPF position.

If the adjustment is normally completed, "COMPLETE" is displayed and data are written into the EEPROM.

In case of an abnormality, "ERROR" is displayed and no data is written into the EEPROM.

The SPF/RSPF white correction start pixel = Displayed pixel position - 34

If the simulation is executed with the SPF/RSPF unit closed, an error is resulted.

SIMULATION 63-7 SHADING POSITION ADJUSTMENT. PRESS START.



64-1	64-1		
Purpose	Operation test/check		
Function	Used to check the operation of the printer function		
(Purpose)	(auto print operation).		
Section	Printer		
Mitem UA	Operation		

WWW.SERVICE-

Operation/procedure

- 1. Select the print item with the 10-key.
- 2. Press the [START] key.
- The display is shifted to the copy menu.
- 3. Select the paper feed tray and the print density.
- 4. Press the [START] key.

Copying is started.

During execution of copying, the [CUSTOM SETTINGS] key and the [INTERRUPTION] key are invalid.

	Item	Content	Setting range	Default
1	2 BY 4 MODE	Self print is made in 2 by 4 mode (printing 2 lines and not printing 4 lines). Since scanning is not performed, when the original is set on the SPF/RSPF, this cannot be performed. * Duplex print cannot be made.	1-2	1
2	LATTICE PRINT	Lattice print (1cm, 1dot width WLT, A3 print (A3 main scan, WLT sub scan)) is performed. * Duplex print can be made.		

* If the IMC board is not installed, the key inputs cannot be made.

SIMULATION 64-1	
SELF PRINT MODE.	SELECT 1-2, AND PRESS START.
1: 2 BY 4 MODE	1
2: LATTICE PRINT	

65

65-1		
Purpose	Adjustment	
Function Used to adjust the touch panel (LCD display section		
(Purpose) detection position.		
Section	Operation (Display, Operation)	

Operation/Procedure

Press the keys displayed on the LCD sequentially.

Adjust the touch panel coordinates.

When the point of "+" on the LCD is pressed, it turns gray. Press all the four points of "+."



65-2

Purpose Adjustment/Setting/Operation data output check (Display, Print)	
Function Used to check the touch panel (LCD display section)	
(Purpose)	detection position adjustment result.
Section	Operation (Display, Operation)

Operation/Procedure

Check the touch panel coordinates.

Press the keys displayed on the LCD sequentially.

When the touch panel is pressed, the X-coordinate and the Y-coordinate (dot conversion values) are displayed.

SIMULAT	011 05-2		400 40 +	500 +	600 +
100190	- ²⁰⁰	+300	+	+	+
140+		X: 600			+
180+		Y: 200			+

65-5	
Purpose Adjustment/Setting/Operation data output check (Display, Print)	
Function (Purpose)	Used to check the key inputs of the operation panel.
Section	Operation (screen/operation)

Operation/procedure

Check the key input of the operation panel.

Press the keys displayed on the LCD sequentially.

After completion of all key entries, "COMPLETE" is displayed.

SIMULATION 65-5 OPERATION PANEL KEY CHECK. COPY

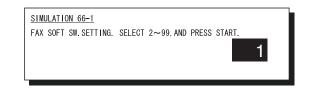
66

66-1		
Purpose	Setting	
Function	Used to change and check the FAX-related soft SW.	
(Purpose)		
Section	FAX	
Operation/procedure		

- 1. Enter the soft SW number to be selected with the 10-key.
- 2. Check and change the setting content of the selected soft SW.
- 3. Press the [START] key to save the set content.

The FAX-related soft SW is displayed on the LCD, and changing can be made by monitoring it.

Note: Executable only when the FAX is installed.



00-2

Purpose	Adjustment	
Function Used to clear the FAX-related soft SW. (Except for the		
(Purpose)	FAX adjustment values)	
Section	FAX	
Operation/precedure		

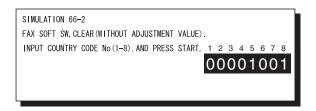
Operation/procedure

- 1. Enter the country code with the 10-key, and press the [START] key.
- When "1: (YES)" is selected, the soft SW corresponding to the country code is cleared. When "2: (NO)" is selected, the simulation is canceled.

Country code

Japan	: 00000000
U.S.A.	: 10110101
Australia	: 00001001
U.K	: 10110100
France	: 00111101
Germany	: 00000100
Sweden	: 10100101
New Zealand	: 01111110
China	: 00100110
Singapore	: 10011100
TW	: 11111110
Other 1	: 11111101
Other 2	: 11111100
Other 3	: 11111011

The codes other than the above are accepted as Japan. Note: Executable only when the FAX is installed.



66-3

Purpose	Operation test/check	
Function (Purpose)	FAX PWB memory check	
Section	FAX	
Item	Operation	

Operation/procedure

Press the [START] key.

Read/write can be checked for FAX PWB memory.

The check result is displayed separately for each memory.

1. Memory to be checked

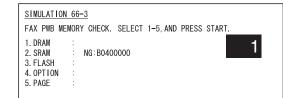
DRAM		
SRAM		
Flash ROM	Program area	SUM check only
	Memory area	
Option memory		The memory size follows the automatically detected value.
PAGE		

2. Detailed procedure

1	"55H" is written to all the addresses of each memory, and the address data are read in sequence to check that they were properly written.		
2	"AAH" is written to all the addresses of each memory, and the address data are read in sequence to check that they were properly written.		
3	"00H" is written to all the addresses of each memory, and the address data are read in sequence to check that they were properly written.		
4	Perform checks 1 - 3 sequentially. If there is no abnormality, it is "OK." If there is any abnormality, "NG" is notified to the error address.		
5	After completion of check, the memory is returned to the initial state. (CPU is not reset)		
Inter	Interruption cannot be made during operation.		

Interruption cannot be made during operation.

Note: Executable only when the FAX is installed.



66-4

Purpose	Operation test/check	
Function Signal send mode (Signal send level: Max.)		
(Purpose)		
Section	FAX	
Item	Operation	

Operation/procedure

Select the signal number with the 10-key, and press the [START] key. The signal is sent to the line and the machine speaker. (Sending the signal is continued until the [CUSTOM SETTINGS] key is pressed.)

By entering the signal number and pressing the [START] key during execution, the signal kind can be changed.

Item		Send signal	Send level Selection
	nom	Cond orginal	menu
1	NO SIGNAL	Signal not sent	None
2	33.6 V34	_	-
3	31.2 V34	_	_
4	28.8 V34	_	_
5	26.4 V34	_	_
6	24.0 V34	_	-
7	16.0 V34	-	-
8	19.2 V34	_	-
9	16.8 V34	-	-
10	14.4 V34	_	-
11	12.0 V34	_	_
12	9.6 V34	_	-
13	7.2 V34	_	_
14	4.8 V34	_	_
15	2.4 V34	_	_
16	14.4 V33	_	_
17	12.0 V33	_	-
18	14.4 V17	_	_
19	12.0 V17	_	_
20	9.6 V17	_	_
21	7.2 V17	_	-
22	9.6 V29	_	-
23	7.2 V29	_	-
24	4.8 V27t	_	-
25	2.4 V27t	_	-
26	0.3 FLG	7EH Flag signal	Yes
27	CED2100	Tone signal	Yes
28	CNG1100		
29	0.3 V21		
30	ANSam		
31	RINGER	Pseudo-ringer sound ([ON HOOK] key ON)	None
32	No MSG	Voice message (no sound)	None
		Under the state where the ring back	
		tone can be sent to the line, keep the	
		sound composition IC volume to 0.	
33	No RBT	Ring back tone (no sound)	None
1		Under the state where the ring back	
		tone can be sent to the line, keep the	
		G/A volume to 0.	

	Item	Send signal	Send level Selection menu
34	DP MAKE	Dial pulse (make)	1: 0dB
		Maintain the make state with keeping	2: Soft SW
		the condition to be able to send to the	
		dial pulse line.	
35	DP BRK	Dial pulse (break)	1: 0dB
		Maintain the break state with keeping	2: Soft SW
		the condition to be able to send to the	
		dial pulse line.	

Note: Executable only when the FAX is installed.

SIMULATION 66 SIGNAL OUTPUT	_	MAX). SELECT	1-35, AND PRESS \$	START.
1. NO SIGNAL 5. 26.4 V34 9. 16.8 V34 13. 7.2 V34	2. 33.6 V34 6. 24.0 V34 10.14.4 V34 14. 4.8 V34	3. 31.2 V34 7. 21.6 V34 11.12.0 V34 15.2.4 V34 19.12.0 V17 23.7.2 V29	4. 28.8 V34 8. 19.2 V34 12. 9.6 V34	1
29. 0.3 V21 33. No RBT		31. RINGER		

66-5	
Purpose	Operation test/check
Function	Signal send mode (Signal send level soft SW setting)
(Purpose)	
Section	FAX
Item	Operation
O	

Operation/procedure

Select the signal number with the 10-key, and press the [START] key.

By setting the signal number, signals are sent to the line and the machine speaker. (Sending signals is continued until interruption command is made (by pressing [CUSTOM SETTINGS] key.)

By entering the signal number and pressing the [START] key during execution, the signal kind can be changed.

			Send level
Si	gnal number	Send signal	Selection
			menu
1	NO SIGNAL	Signal not sent	None
2	33.6 V34	33.6 V34	-
3	31.2 V34	31.2 V34	-
4	28.8 V34	28.8 V34	_
5	26.4 V34	26.4 V34	-
6	24.0 V34	24.0 V34	-
7	16.0 V34	16.0 V34	-
8	19.2 V34	19.2 V34	-
9	16.8 V34	16.8 V34	-
10	14.4 V34	14.4 V34	-
11	12.0 V34	12.0 V34	-
12	9.6 V34	9.6 V34	-
13	7.2 V34	7.2 V34	-
14	4.8 V34	4.8 V34	-
15	2.4 V34	2.4 V34	-
16	14.4 V33	14.4 V33	-
17	12.0 V33	12.0 V33	-
18	14.4 V17	14.4 V17	-
19	12.0 V17	12.0 V17	-
20	9.6 V17	9.6 V17	-
21	7.2 V17	7.2 V17	-
22	9.6 V29	9.6 V29	-
23	7.2 V29	7.2 V29	-
24	4.8 V27t	4.8 V27t	-
25	2.4 V27t	2.4 V27t	
26	0.3 FLG	7EH Flag signal	Yes ERV I

			Send level
Signal number		Send signal	Selection
			menu
27	CED2100	Tone signal	Yes
28	CNG1100		
29	0.3 V21		
30	ANSam		
31	RINGER	Pseudo-ringer sound ([ON HOOK] key ON)	None
32	No MSG	Voice message (no sound)	None
		Under the state where the ring back	
		tone can be sent to the line, keep the	
		sound composition IC volume to 0.	
33	No RBT	Ring back tone (no sound)	None
		Under the state where the ring back	
		tone can be sent to the line, keep the	
		G/A volume to 0.	
34	DP MAKE	Dial pulse (make)	1: 0dB
		Maintain the make state with keeping	2: Soft SW
		the condition to be able to send to the	
		dial pulse line.	
35	DP BRK	Dial pulse (break)	1: 0dB
		Maintain the break state with keeping	2: Soft SW
		the condition to be able to send to the	
		dial pulse line.	

Note: Executable only when the FAX is installed.

SIMULATION 66	-5		
SIGNAL OUTPUT	CHECK (SOFT SW.). SELECT 1-35	, AND PRESS START.
1. NO SIGNAL 5. 26.4 V34 9. 16.8 V34 13. 7.2 V34 17.12.0 V33 21. 7.2 V17 25. 2.4V27t	2. 33.6 V34 6. 24.0 V34 10.14.4 V34 14.4.8 V34 18.14.4 V17 22.9.6 V29 26.0.3 FLG	11.12.0 V34 15.2.4 V34	4. 28. 8 V34 8. 19. 2 V34 12. 9. 6 V34 16. 14. 4 V33 20. 9. 6 V17 24. 4. 8 V27t 28. CNG 1100
29. 0.3 V21 33. No RBT	30. ANSam 34. DP MAKE	31. RINGER 35. DP BRK	32. No RBT

66-6		
Purpose	Data output, check	
Function (Purpose)	Printing the confider	ntial password
Section	FAX	
Item	Data	Confidential/Pass code
Operation/procedure		

Press the [START] key.

The confidential ID table (confidential BOX numbers, confidential BOX names, and confidential password) is printed.

The confidential data of My company mode is printed separately.

Note: Executable only when the FAX is installed.

SIMULATION 66-6 PASS CODE PRINT 1. PRINT	OUT. PRESS	S START.	

66-7

Purpose	Data output, check	
Function (Purpose)	Print the screen memory contents	
Section	FAX	
Item	Data	Image data

Operation/procedure

Press the [START] key.

Used to input all image data (including confidential reception data, remote send image, not-sent image) stored in image memory of the *E-MANOAL.NET* The output image is remained even after outputting. Note: Executable only when the FAX is installed.

IMAGE MEMORY PRINT OUT. PRE	SS START.	
1. PRINT		1

66-8	
Purpose	Operation test/check
Function (Purpose)	Voice Message send (Signal send level:
	Max.) (Japan only)
Section	FAX
Item	Operation

Operation/procedure

Select the message number with the 10-key, and press the [START] key.

By setting the message No., the sound message is sent to the line and the speaker of the body. (The message is repeated until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.) By pressing the [START] key during execution, the signal kind can be changed.

Item		Voice message
1	NONE	Silent
2	FAX/TEL MSG1	"Hold the line a minute, please send fax." (TEL/FAX voice response)
3	FAX/TEL MSG2	"Hold the line a minute." (TEL/FAX voice response)
4	FAX/TEL MSG3	"Not around here, please send fax." (TEL/FAX voice response)
5	CHANGED RX MSG	"Ding Dong" (Sound delivered when switching to remote reception)
6	RINGER	Call sound
7	EXT.TEL RINGER	External telephone call

Message No. 5 can be heard by an external telephone speaker.

Note: Executable only when the FAX is installed.

SIMULATION 66-8	
MESSAGE OUTPUT CHECK(LEVEL MAX).	SELECT1-7, AND PRESS START.
1. NONE	2
2. FAX/TEL MSG1	
3. FAX/TEL MSG2	
4. FAX/TEL MSG3	
5. CHNGED RX MSG	
6. RINGER	
7. EXT. TELRINGER	

66-9		
Purpose	Operation test/check	
Function	Used to send the voice message. (Signal send level:	
(Purpose)	Set by soft SW.) (Japan only)	
Section	FAX	
Item	Operation	

Operation/procedure

Select the message number with the 10-key, and press the $\left[\text{START}\right]$ key.

By setting the message No., the sound message is sent to the line and the speaker of the body. (The message is repeated until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.) By pressing the [START] key during execution, the signal kind can be changed.

Item		Voice message
1	NONE	Silent
2	FAX/TEL MSG1	"Hold the line a minute, please send fax."
		(TEL/FAX voice response)
3	FAX/TEL MSG2	"Hold the line a minute."
		(TEL/FAX voice response)
4	FAX/TEL MSG3	"Not around here, please send fax."
		(TEL/FAX voice response)
5	CHANGED RX MSG	"Ding Dong"
		(Sound delivered when switching to remote
		reception)
6	RINGER	Call sound
7	EXT.TEL RINGER	External telephone call

Message No. 5 can be heard by an external telephone speaker.

Note: Executable only when the FAX is installed.

SIMULATION 66-9	
MESSAGE OUTPUT CHECK (SOFT SW.).	SELECT1-7, AND PRESS START.
1. NONE 2. FAX/TEL MSG 3. FAX/TEL MSG 4. FAX/TEL MSG 5. CHNGED RX MSG 6. RINGER 7. EXT. TELRINGER	2

66-10		
Purpose	Adjustment/Setting/Ch	eck
Function (Purpose)	Image data memory cl	ear
Section	FAX	
Item	Data	Image data
Operation/procedure		

Operation/procedure

Select "1: YES" with the 10-key and press the [START] key. (When "2: NO" is selected, the simulation is canceled.)

Used to clear all image data (including confidential reception data) stored in image memory of the FAX section.

The management table is also cleared (initialized) at the same time.

* Ilf there is any print data, the power must be turned off after clearing. Note: Executable only when the FAX is installed.

IMAGE MEMORY CLEAR. ARE YOU SURE ? 1. YES 2. NO 1	SIMULATION 66-10	
	1. YES	1

66-11

Purpose	Operation test/check
Function	Used to send 300bps signals. (Signal send level:
(Purpose)	Max.)
Section	FAX
Item	Operation

Operation/procedure

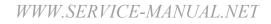
Select the signal number with the 10-key, and press the [START] key.

By setting the signal number, the specified signal is delivered to the line at the speed of 300bps. (The signal is continuously sent until the interruption command is provided by pressing the [CUSTOM SET-TINGS] key.)

The signal send level can be selected from 0dB or the soft SW set value.

The signal send level is returned to the soft SW set value before execution of the mode after completion of the mode.

By entering the number and pressing the [START] key during execution, the signal kind can be changed.



	Item		
1	NO SIGNAL		
2	11111		
3	11110		
4	00000		
5	010101		
6	00001		
Noto: Executable or			

Note: Executable only when the FAX is installed.

SIMULATION 66-11
300bps SIGNAL OUTPUT(LEVEL MAX). SELECT1-6, AND PRESS START.
1. NO SIGNAL
2. 11111 3. 11110
4. 00000
5.010101
6.00001

66-12

Purpose	Operation test/check
Function (Purpose)	Used to send 300bps signals. (Signal send level: Set by soft SW)
Section	FAX
Item	Operation

Operation/procedure

Select the signal number with the 10-key, and press the [START] key.

By setting the signal number, the specified signal is delivered to the line at the speed of 300bps. (The signal is continuously sent until the interruption command is provided by pressing the [CUSTOM SET-TINGS] key.)

The signal send level can be selected from 0dB or the soft SW set value.

The signal send level is returned to the soft SW set value before execution of the mode after completion of the mode.

By entering the number and pressing the [START] key during execution, the signal kind can be changed.

Item		
1	NO SIGNAL	
2	11111	
3	11110	
4	00000	
5	010101	
6	00001	

Note: Executable only when the FAX is installed.

SIMULATION 66-12			
300bps SIGNAL OUTPUT (SOFT SW	I.). SELECT 1-6, AND PRESS START.		
1. NO SIGNAL 2. 11111 3. 11110 4. 00000 5. 010101 6. 00001	1		

66-13	
Purpose	Setting
Function (Purpose)	Used to register the dial numbers.
Section	FAX
Item	Operation

Operation/procedure

Enter the number with the 10-key, [*] key, and [#] key.

Press the [CLEAR] key to return to the initial state.

Press the [START] key to register the entered number.

Note: Executable only when the FAX is installed.

<u>SIMULATION 66-13</u> DIAL TEST NUMBER SETTNG. INPUT NUMBER AND PRESS START. 0-9 : [0-9],*:[*], #:[#] 0123456789*#01234567

66-14

Purpose	Operation check/test	
Function	unction Used to perform the dial test. (10 PPS send test)	
(Purpose)		
Section	FAX	
Item	Operation	

Operation/Procedure

- 1. Select the item with the 10-key, and press the [START] key.
- 2. Set the make time with the 10-key.

The dial is sent with the set value + 26ms.

The sending dial cannot be interrupted.

Item		Content	Setting range
0	EXECUTE	Execution	-
1	1 MAKE TIME Dial pulse make time setting		0-15
Note - E secondado - a los deservicios - EAM in installa d			

Note: Executable only when the FAX is installed.

SIMULATION 66-14	
DIAL TEST(10PPS). SELECT 0-1, AND PRESS START.	
0. EXECUTE	1
1.MAKE TIME : 7 [+26ms]	

66-15

Purpose	Operation check/test	
Function	on Used to perform the dial test. (20 PPS send test)	
(Purpose)		
Section	FAX	
Item	Operation	

Operation/Procedure

1. Select the item with the 10-key, and press the [START] key.

2. Set the make time with the 10-key.

The dial is sent with the set value + 26ms.

The sending dial cannot be interrupted.

Item		Content	Setting range
0	EXECUTE	Execution	-
1	MAKE TIME	Dial pulse make time setting	0-15

Note: Executable only when the FAX is installed.



66-16

Purpose	Operation check/test	
Function	ttion Used to perform the dial test. (DTFM signal send test)	
(Purpose)		
Section	FAX	
Item	Operation	
<u> </u>		

Operation/Procedure

- 1. Select the item with the 10-key, and press the [START] key.
- 2. Enter the set value with the 10-key.

The sending dial cannot be interrupted.

	Item		Content	Setting range	
Ē	0 EXECUTE		Execution	-	
ſ	1 HIGH (SW)		High group	0-15	
	2 HIGH-LOW (SW)		High group, Low group	0-15	
3. Select the soft SW reflection.					

 Item
 Content

 1
 NO STORE TO SW
 Not reflected.

 21
 STORE TO SW
 Reflected. (Shift SW value changed.)

SIMULATION 66-16						
DIAL TEST(DTMF). 0. EXECUTE	SELECT	0-2, AND	PRESS	START.		-1
1. HIGH (SW) 2. HIGH-LOW (SW)	:	7				
21111 011 2011 (011)						

66-17	
Purpose	Operation check/test
Function	Used to check the DTFM signal send operation.
(Purpose)	(Signal send level: Max.)
Section	FAX
Item	Operation

Operation/procedure

Enter the DTFM signal (1 digit (1 to 9, 0, *, #)) and press the [START] key.

When the [CUSTOM SETTINGS] key is pressed during execution, the simulation is terminated.

Note: Executable only when the FAX is installed.

<u>SIMULATION 66-17</u> DTMF SIGNAL OUTPUT(LEVEL MAX). INPUT 0-9, *, #, AND PRESS START.

66-18

Purpose	Operation check/test
Function Used to check the DTFM signal send operation.	
(Purpose)	(Signal send level: Set by soft SW.)
Section	FAX
Item	Operation

Operation/Procedure

Enter the DTFM signal (1 digit (1 to 9, 0, * , #)) and press the [START] key.

When the [CUSTOM SETTINGS] key is pressed during execution, the simulation is terminated.

Note: Executable only when the FAX is installed.

<u>SIMULATION 66-18</u> DTMF SIGNAL OUTPUT(SOFT SW.). INPUT 0-9, *, #, AND PRESS START.

66-19	
Purpose	Back up
Function (Purpose)	Used to write the SRAM data to the Flash ROM.
Section	FAX
Item	Data

Operation/Procedure

Select "1: YES" with the 10-key, and press the [START] key. The data are backed up. (When "2: NO" is selected, the simulation is canceled.)

* The AR-FX5 data cannot be written into the AR-FX7. If it is executed, data are initialized and deleted. In addition, the AR-FX7 data cannot be used in the AR-FX5.

Note: Executable only when the FAX is installed.

SIMULATION 66-19	
SRAM BACK UP. (WRITE TO FLASH ROM) ARE Y	OU SURE ?
1. YES	
2. NO	

66-20

Purpose	Back up
Function	Used to write the Flash ROM data to the SRAM.
(Purpose)	
Section	FAX
Item	Data
0	

Operation/Procedure

Select "1: YES" with the 10-key, and press the [START] key. The Flash ROM data are read out and written into the SRAM. (When "2: NO" is selected, the simulation is canceled.)

* The AR-FX5 data cannot be written into the AR-FX7. If it is executed, data are initialized and deleted. In addition, the AR-FX7 data cannot be used in the AR-FX5.

Note: Executable only when the FAX is installed.

	ATIO									
SRAM 1. YES 2. NO		UP.	(READ	FROM	FLASH	ROM)	ARE	YOU	SURE ?	1
	_		_	_		_	_	_		

66-21

Purpose	Check
Function (Purpose)	FAX information print
Section	FAX
Item	Data

Operation/procedure

- 1. Select the item to be printed.
- 2. Press the [START] key.

The information of the selected item is printed.

Item Content 1 USER SW.LIST User setting list 2 SOFT SW.LIST Soft SW list 3 SYSTEM ERROR System error list Used to print the system error log (error number and time).
2 SOFT SW.LIST Soft SW list 3 SYSTEM ERROR System error list Used to print the system error log (error)
3 SYSTEM ERROR System error list Used to print the system error log (error
Used to print the system error log (error
4 PROTOCOL Protocol error list Regardless of soft SW38-1 status, the protocol monitor of the preceding communication is printed. (Printing is allowed at any time before starting the next communication.) For this operation the protocol monitor of one communication is always buffered.

Note: Executable only when the FAX is installed.

SIMULATION 66-21					
FAX INFORMATION PRIN	T OUT.	SELECT	1-4, AND	PRESS	START.
1. USER SW. LIST					0
2. SOFT SW. LIST					0
3. SYSTEM ERROR					
4. PROTOCOL					

Purpose	Setting
Function	Handset sound volume adjustment (Japan only)
(Purpose)	
Section	FAX
Item	Operation
Operation/pr	oooduro

Operation/procedure

- 1. Select the set volume. (Max., Middle, Min.)
- 2. Press the [START] key.

Switch of 1, 2, and 3 can be made during execution of the simulation. During execution of the simulation, sounds are generated.

Note: Executable only when the FAX is installed.

SIMULATION 66-22 HANDSET VOLUME SETTING.	SELECT	1-3, AND	PRESS	START.	
1. MAX					0
2. MIDDLE					2
3. MIN					

66-24					
Purpose	Data clear				
Function	Used to clear the FAST storage data. (SEC only)				
(Purpose)					
Section	FAX				
Item	Data	Initializing			

Operation/procedure

Select "1: YES" with the 10-key and press the [START] key. The FAST storage data are cleared. (When "2: NO" is selected, the simulation is canceled.)

Note: Executable only when the FAX is installed.

SIMULATION 66-24		
FAST MEMORY DATA CLEAR. 1. YES 2. NO	ARE YOU SURE?	

66-30

Purpose	Operation test/check
Function (Purpose)	Used to set the TEL/LIU.
Section	FAX
Item	Operation

Operation/procedure

When the relay state of the polarity reverse relay, the handset hook switch, or the external telephone hook switch is changed, the content of change is displayed regardless of the soft SW setup (real time). The display of change is kept until an interruption command is supplied by pressing the [CUSTOM SETTINGS] key.

ltem	Notification contents			
nem	Signal low	Signal high		
HS2	ON	OFF		
HS1	ON	OFF		
RHS	ON	OFF		
EXHS	ON	OFF		

Note: Executable only when the FAX is installed.

SIMULATION TEL/LIU SE				
HS2 :***	HS1 :***	RHS :***	EXHS :***	

66-31

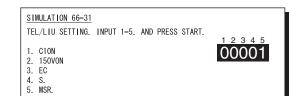
Purpose	Setting
Function (Purpose)	Used to set the TEL/LIU.
Section	FAX
Item	Operation

Operation/Procedure

- 1. Enter the set value. (Valid only 0 to 8)
- 2. The entered bit is alternatively switched between "0" and 1" and the target signal name is highlighted.
- 3. Press the [START] key to send the signal.

When the [CUSTUM SETTINGS] key is pressed, the output is terminated.

Note: Executable only when the FAX is installed.



66-32

Purpose	Operation test/check
Function (Purpose)	Receive data check
Section	FAX
Item	Operation

Operation/procedure

The fixed data received from the line are checked and the result is displayed.

When data are coincident, "OK" is displayed. When not, "NG" is displayed.

Note: Executable only when the FAX is installed.

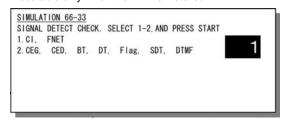
RECEIVED	DATA	CHECK.	CHECKING (OK or NG)

66-33

Purpose	Operation test/check
Function (Purpose)	Signal detection check
Section	FAX
Item	Operation

Operation/Procedure

Signal detection is checked and the result is displayed. Note: Executable only when the FAX is installed.



66-34

Purpose	Operation test/check
Function (Purpose)	Communication time measurement display
Section	FAX
Item	Operation

Operation/procedure

The send/receive test is performed, and the time required for send/ receive of the image data in the test is measured and displayed.

Setup on the side when e communicat	xecuting	Communication means Picture quality Density ECM Sender informatior	: Memory send : Normal Character : Lighter : ON : OFF	
Measuring range	Send	From flag reception before sending of image data until sending of RCP frame		
	Receive	From flag reception before reception of image data until reception of RCP frame		

Mode when measuring	Used to make communication not in a simulation process but in the normal screen
	and measure the time.
How to check the time	Enter the simulation for communication time
	check and check the time.
Measuring unit	msec

When there are two or more send/receive operations of image data in one communication, only the time of the last send/receive data near the end is measured.

Note: Executable only when the FAX is installed.



66-37

Purpose	Adjustment/Setting/Check
Function (Purpose)	Speaker sound volume adjustment
Section	FAX

Operation/procedure

The following test sound is delivered to the line and the speaker to adjust the sound kind and volume.

The send level to the line is the set value of soft SW.

The set values of the selected sound kind and volume are written to each soft SW.

1. Sound kinds pattern

Sound kinds (Test sound)		Sound volume set value			
RINGER	Call sound	DEF.	LAR.	MED.	SMA.
LINE MONITO	Line monitor sound (Test sound: communication signal sound)	DEF.	LAR.	MED.	SMA.
ON HOOK	On-hook (Test sound, communication signal sound)	DEF.	LAR.	MED.	SMA.
SCAN FINISH	Scan finish sound	DEF.	LAR.	MED.	SMA.
TX/RX FINISH	Communication finish sound	DEF.	LAR.	MED.	SMA.
DTMF	DTFM send sound	DEF.	LAR.	MED.	SMA.

LAR: (MED. Value + 1)

MED: (SMA value +1) - (LAR value - 1)

SMA: 1 - (MED. Value + 1)

```
2. Sound volume pattern
```

Note: Executable only when the FAX is installed.

SIMULATION 66-37 SPEAKER VOLUME SETTING. SELECT 1-16, AND PRESS START. RINGER 1. DEF.: 2. LAR.: 3. MED.: 4. SMA.: LINE MONITOR 5. DEF.: 6. LAR.: 7. MED.: 8. SMA.: 8. SMA ON HOOK 9. DEF. : 10. LAR. 11. MED. 12. SMA. SCAN FNINISH 13. DEF. : 14. LAR. 15.MED. 16. SMA. TX/RX FINISH 17. DEF. : 📕 18. LAR. 19. MED. 20. SMA 21. DEF. : 22. LAR. 23. MED. 24. SMA. DTMF

66-41

00 11	
Purpose	Adjustment/Setting/Check
Function	CI signal check
(Purpose)	

Operation/procedure

When the [START] key is pressed, the call signal from CI pin is detected to deliver the call sound to the line and the speaker. The volume of call sound follows the soft SW.

Signal detection and delivery of pseudo-call sound at detection are executed until the interruption command is provided by pressing the [CUSTOM SETTINGS] key.

Note: Executable only when the FAX is installed. WWW.SERVICE-M

SIMULATION 66-41 CI SIGNAL DETECT CHECK. PRESS START

67

67-1	
Purpose	Operation test/check
Function	Used to execute read/write check of the RAM on the
(Purpose)	PCL board, and to display the result. (To be supported
	for MCU v00.45 or later)
Section	Printer
Item	Operation

Operation/Procedure

Press the [START] key.

Read/write check of the RAM on the PCL board is performed and the result is displayed.

The presence of DIMM is detected. If there is no DIMM, "---" is displayed. If there is, read/write check is performed and the result is displayed.

The display of "---" is changed to "CHECKING," "OK," or "NG" according to the message number included in the continuation command.

When the simulation is completed normally, "COMPLETE" is displayed. (No display for abnormal completion.)

Since only the devices installed to the PCL board are checked when the simulation is started, the display may not be changed from "---." (No message is sent for an uninstalled device.)

Key operations on each display

(Initial display)

Pressing the [INTERRUPT] key shifts the display to the previous menu. Pressing the [CA] key leads to resetting. Pressing the [C] key, and the [CUSTOM SETTINGS] key is invalid. (Beep sound)

(Display during execution)

During execution, the [INTERRUPT] key, [C] key, and the [CA] key are invalid. (Beep sound). The [CUSTOM SETTINGS] key produces a valid sound only.

(Check end display)

After execution, the [INTERRUPT] key and the [C] key are invalid. (Beep sound). Pressing the [CA] key leads to resetting. The [CUSTOM SETTINGS] key produces a valid sound only.

After completion of the simulation, reset the machine.

SIMULATION	1000		
RAM CHECK.	PRES	S START.	
ON BOARD	:		
DIMM	120		

67-11

•••••	
Purpose	Setting
Function	Used to set the select-in signal of the Centro port.
(Purpose)	
Section	Printer
Item	Operation
Operation/procedure	

Enter the set value with the 10-key, and press the [START] key.

Setting range	0-1
Default	0

* Execution of the simulation which performs communication with the PCL board is inhibited until Notice Page storage is completed. (Only when the serviceman call error occurs.)

 * In the other case than the serviceman call error, entering the simulation is inhibited during the system check operation is displayed.
 Note: Executable only when the PCL is installed.

SIMULATION 67-11	80			
CENTRO SELECT IN	SIGNAL	SETTING.	SELECT	0-1, AND
PRESS START.				
0:ON				0
1:OFF				

67-14

Purpose	Flash ROM version up
Function	Used to check write/comparison of flash programs.
(Purpose)	
Section	Printer
Item	Operation

Operation/procedure

- 1. Press the [START] key.
 - "PLEASE SEND DATA" is displayed.
- Data are sent from the PC (MS-DOS) by use of "fcopy" command (FCOPY: file name). (Refer the "[7] FLASH ROM VERSION UP PROCEDURE")

Used to overwrite and check the flash device while displaying its process status.

After completion, the result is displayed.

3. Press the [CA] key to cancel the simulation and reset.

(Flash Device)	[(Processing state)
PROGRAM		RECEIVE
BOOTROM		ERASE
PS KANJI FONT		WRITE
ESC/P KANJI FONT		VERIFY
OPTION FONT		

- * Execution of the simulation which performs communication with the PCL board is inhibited until Notice Page storage is completed. (Only when the serviceman call error occurs.)
- * In the other case than the serviceman call error, entering the simulation is inhibited during the system check operation is displayed.

SIMULATION 67-14
FLASH ROM PROGRAM WRITE CHECK/COMPARE CHECK.
PRESS START.

67-15	
Purpose	Operation test/check
Function	Used to check the validity of the ROM on the PCL
(Purpose)	board and the result is displayed. (To be supported for
	MCU v00.45 or later)
Section	Printer
Item	Operation

Operation/procedure

Press the [START] key.

Each ROM on the PCL board is checked and the result is displayed. The display of "---" is changed to "CHECKING," "OK," or "NG" according to the message number included in the continuation command.

When the simulation is completed normally, "COMPLETE" is displayed. (No display for abnormal completion.)

Since only the devices installed to the PCL board are checked when the simulation is started, the display may not be changed from "---." (No message is sent for an uninstalled device.)

Key operations on each display

(Initial display)

Pressing the [INTERRUPT] key shifts the display to the previous menu. Pressing the [CA] key leads to resetting. The [C] key and the [CUSTOM SETTINGS] key are invalid. (Beep sound).

(Execution display)

During execution, the [INTERRUPT] key, the [C] key, and the [CA] key are invalid. (Beep sound). Pressing the [CUSTOM SETTINGS] key produces a valid sound only.

(Check end display)

After execution, the [INTERRUPT] key and the [C] key are invalid. (Beep sound). Pressing the [CA] key leads to resetting. Pressing the [CUSTOM SETTINGS] key produces a valid sound only.

After completion of the simulation, reset the machine.

SIMULATION 67-15		
ROM CHECK. PRESS START.		
BOOT ROM	:	
MT FONT	1	
PROGRAM	4	
ESC/P KANJI	:	
PS KANJI		6777771
OPTION	:	()()

67-17

Purpose	Data clear
Function	Used to clear the printer section setting. (NVRAM
(Purpose)	clear)
	-

Operation/procedure

- 1. Press the [START] key.
 - The confirmation dialogue is displayed.
- Select "1: YES" with the 10-key and press the [START] key.
 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

If there is no abnormality after Clear operation, "COMPLETE" is displayed. If there is any abnormality, "ERROR" is displayed.

- * Execution of the simulation which performs communication with the PCL board is inhibited until Notice Page storage is completed. (Only when the serviceman call error occurs.)
- * In the other case than the serviceman call error, entering the simulation is inhibited during the system check operation is displayed.

Note: Executable only when the PCL is installed.

SIMULATION 67-17 NVRAM CLEAR. PRESS START.

67-18

Purpose	Data clear
Function	Used to clear the data area for FLASH ROM Network
(Purpose)	Scanner Application.

Operation/procedure

- 1. Press the [START] key.
 - The confirmation dialogue is displayed.
- 2. Select "1: YES" with the 10-key and press the [START] key. 1: YES (Cleared)
 - 2: NO (Not cleared) (Default)

If there is no abnormality after Clear operation, "COMPLETE" is displayed. If there is any abnormality, "ERROR" is displayed.

- * Execution of the simulation which performs communication with the PCL board is inhibited until Notice Page storage is completed. (Only when the serviceman call error occurs.)
- * In the other case than the serviceman call error, entering the simulation is inhibited during the system check operation is displayed.

Note: Executable only when the PCL is installed.

SIMULATION 67-18 FLASH ROM NETWORK SCANNER APPLICATION DATA CLEAR. PRESS START.

67-20

	Used to check the network connection when the
(Purpose)	scanner option is installed.
• ·· ·	

Operation/procedure

The network scanner is checked.

 Press the [START] key. "PLEASE SEND DATA" and "READY" are displayed. (When the PCL board is installed, it takes some time to display "READY.")

2. Boot "ftp" from MS-DOS. Data are sent from the PC by the put file name.

The process is displayed. Check the display.

(TEST DATA)

TEST DATA (Process status)

RECEIVE

After completion, the result is displayed.

When the simulation is completed normally, "COMPLETE" is displayed. (No display for abnormal completion.)

Pressing [CA] key cancels the simulation resets the operation.

- * Execution of the simulation which performs communication with the PCL board is inhibited until Notice Page storage is completed. (Only when the serviceman call error occurs.)
- * In the other case than the serviceman call error, entering the simulation is inhibited during the system check operation is displayed.

Note: Executable only when PCL and NIC are installed.

SIMULATION 67-20 NETWORK SCANNER TEST. PRESS START.

[9] TROUBLE CODE LIST

1. List

Trouble code			Trouble
Main	Sub	Trouble contents	detection
code	code		detection
A0	01	Security incompatibility error	
E1	00	IMC board communication trouble	MCU
	10	IMC board trouble	
-	11	IMC ASIC error	
-	12	IMC CODEC error	
-			
-	13	IMC board flash ROM error	
-	14	IMC board expaned memory module (DIMM) error	
	15	IMC board Page Memory error/SRAM error	
	16	IMC board image compression store memory error	
-	17	IMC board smoothing IC error	
	80	IMC PWB communication trouble	
	0.1	(protocol)	
	81	IMC PWB communication trouble (Parity)	
	82	IMC PWB communication trouble (Overrun)	
	84	IMC PWB communication trouble (Framing)	
	88	IMC PWB communication trouble (Time- out)	
F7	02	LSU trouble	
	10	Shading trouble (black correction)	
-	11	Shading trouble (white correction)	
-	12	Shading trouble	
F1	00	Finisher communication trouble	FIN
ГІ			
-	01	Finisher jogger shift trouble	
-	06	Finisher shift motor abnormality	
-	08	Finisher staple shift motor trouble	
-	11	Pusher motor trouble	
	15	Finisher elevator motor trouble	
F2	02	Toner supply failure	
	04	Identification error	
		Model error	
		Type error	
		Destination error	
		Data abnormality	
		Misc error	
F5	02	Copy lamp lighting abnormality	
F6	00	MCU-FAX communication trouble	MCU
	10	FAX control PWB trouble	
	80	FAX control PWB communication trouble	
	0.1	(Protocol)	
	81	FAX control PWB communication trouble (Parity)	
	82	FAX control PWB communication trouble (Over-run)	
	84	FAX control PWB communication trouble	
		(Framing)	
	88	FAX control PWB communication trouble (Timeout)	
	99	FAX control PWB destination error	
L			1

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2. Self diagnostics

Trouble code			Details of trouble
Main code	Sub code		
A0	01	Content	Security incompatibility error
	•	Details	When the PCL or the FAX board is
			installed, it does not match with
			compatible/incompatible setup of the MCU
		-	board security.
		Cause	The security compatibility/incompatibility of the installed PCL or FAX board does not
			match with that of the MCU board.
		Check	Cheek the security compatibility/
		and	incompatibility of each board. Match the
		remedy	security compatibility/incompatibility of the
		• • •	boards.
E1	00	Content	MCU-IMC communication trouble
		Details	Communication establishment error/ framing/parity/protocol error
		Cause	IMC PWB connector disconnection
			Motherboard connector pin breakage
			IMC PWB ROM defect, data failure
		Check	Check the connectors of the IMC PWB
		and remedy	and MCU PWB. Check the grounding of the copier.
		remeuy	Check the ROM of the IMC PWB.
	10	Content	IMC PWB trouble
		Details	Communication trouble between MCU and
			IMC PWB
		Cause	IMC PWB connector disconnection
			Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check	Check the connectors of the IMC PWB
		and	and MCU PWB.
		remedy	Check the grounding of the copier.
			Check the ROM of the IMC PWB.
	11	Content	IMC board ASIC error
		Details	ASIC abnormality on IMC board
		Cause Check	IMC board abnormality Replace the IMC PWB.
		and	
		remedy	
	12	Content	IMC board CODEC IC error
		Details	CODEC IC (JBIG chip) abnormality on
		Course	IMC board
		Cause Check	IMC board abnormality Replace the IMC PWB.
		and	
		remedy	
		Remarks	JBIG IC abnormality
	13	Content	IMC board flash ROM error
		Details	Flash ROM abnormality on IMC board
		Cause	IMC board abnormality
		Check	Replace the IMC PWB.
		and remedy	"When the program download is abnormally terminated, a error may occur.
		remeuy	In this case, download the program again."
		Remarks	Program ROM abnormality
		nemarks	

Tro	uble de		
Main	ue Sub		Details of trouble
code	code		
E1	14	Content	IMC board expanded memory module (DIMM) error
		Details	IMC extended compression memory
			module installation error
			IMC extended compression memory
		0	access error
		Cause	IMC expanded memory module installation trouble
			IMC expanded memory module trouble
			IMC expanded memory contact trouble
			IMC board abnormality
		Check	Check installation of the expanded
		and	memory module. (Spec: Added to Slot 1.)
		remedy	Replace the expanded memory module. Replace the IMC PWB.
		Remarks	Extend memory abnormality for compressed image store (DIMM module)
	15	Content	IMC board Page Memory error/SRAM error
		Details	IMC Page Memory Work SRAM
			abnormality
		Cause	IMC board abnormality
		Check and	Replace the IMC PWB.
		remedy	
		Remarks	Print Buffer Page Memory or Work SRAM
			abnormality
	16	Content	IMC board compression image store memory error
		Details	Access error of IMC standard compression memory
		Cause	IMC board abnormality
		Check	Replace the IMC PWB.
		and	
	17	remedy Content	IMC board smoothing IC error
	17	Details	IMC smoothing IC abnormality
		Cause	IMC board abnormality
		Check	Replace the IMC PWB.
		and	
		remedy	
	80	Content	IMC PWB communication trouble (protocol)
		Details	Communication trouble between MCU and IMC PWB (Protocol error)
		Cause	IMC PWB connector disconnection
			Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check	Check the connectors of the IMC PWB
		and	and MCU PWB.
		remedy	Check the grounding of the copier. Check the ROM of the IMC PWB.
	81	Content	IMC PWB communication trouble (Parity)
		Details	Communication trouble between MCU and printer IMC (Parity error)
		Cause	IMC PWB connector disconnection
			Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check	Check the connectors of the IMC PWB
		and	and MCU PWB.
		remedy	Check the grounding of the copier. Check the ROM of the IMC PWB.
L			

Trouble code			
Main	Sub		Details of trouble
code E1	code 82	Content	IMC PWB communication trouble
		Details	(Overrun) Communication trouble between MCU and IMC PWB (Overrun error)
		Cause	IMC PWB (Overrun error)
		Cauco	Motherboard connector pin breakage
			IMC PWB ROM defect, data failure
		Check	Check the connectors of the IMC PWB
		and remedy	and MCU PWB. Check the grounding of the copier.
		loniouy	Check the ROM of the IMC PWB.
	84	Content	IMC PWB communication trouble (Framing)
		Details	Communication trouble between MCU and IMC PWB (Framing error)
		Cause	IMC PWB connector disconnection
			Motherboard connector pin breakage IMC PWB ROM defect, data failure
		Check	Check the connectors of the IMC PWB
		and remedy	and MCU PWB. Check the grounding of the copier.
		remedy	Check the ROM of the IMC PWB.
	88	Content	IMC PWB communication trouble (Time- out)
		Details	Communication trouble between MCU and IMC PWB (Time-out error)
		Cause	IMC PWB connector disconnection
			Motherboard connector pin breakage
		Check	IMC PWB ROM defect, data failure Check the connectors of the IMC PWB
		and	and MCU PWB.
		remedy	Check the grounding of the copier.
		<u> </u>	Check the ROM of the IMC PWB.
E7	02	Content Details	LSU trouble BD signal from LSU is not detected in a
		Details	constant cycle. (Kept OFF or ON)
		Cause	LSU connector or LSU inside harness
			trouble or disconnection Polygon motor rotation abnormality
			Laser does not illuminate.
			MCU PWB failure
		Check	Check for disconnection of the LSU
		and remedy	connector. Check the LSU operation with SIM 61-1.
		remeuy	Check that the polygon motor rotates
			normally.
			Check laser LED lighting.
			LSU replacement Replace the MCU PWB.
	10	Content	Shading trouble (black correction)
		Details	CCD black reference plate scan level abnormality when the copy lamp turns off.
		Cause	Flat cable installation failure to CCD unit
			CCD unit error
		Check	Check flat cable installation to the CCD
		and remedy	unit. Check CCD unit.
I	<u> </u>	remeay	

		uble de		
uble	Main	Sub		Details of trouble
cation trouble	code E7	code 11	Content	Shading trouble (white correction)
ble between MCU and error)			Details Cause	Improper CCD white reference plate reading level for copy lamp lighting Flat cable installation failure to CCD unit
r disconnection			Cause	"Dirt on the mirror, lens, and reference
ctor pin breakage				white plate"
ect, data failure				Copy lamp operation error
rs of the IMC PWB g of the copier.				CCD unit abnormality MCU PWB abnormality (Occurred in the SPF scan position.)
he IMC PWB.			Check	"Clean the mirror, the lens, and the
cation trouble			and remedy	reference white plate." Check the copy lamp light quantity and its
ble between MCU and error)				operation. (SIM 5-3) Check CCD unit.
r disconnection				Check MCU PWB.
ctor pin breakage		12	Content	Shading trouble
ect, data failure rs of the IMC PWB			Details	White correction is not completed in the specified number of times.
g of the copier.			Cause	Flat cable installation failure to CCD unit "Dirt on the mirror, lens, and reference
he IMC PWB.				white plate"
cation trouble (Time-				Copy lamp lighting trouble
				CCD unit abnormality
ble between MCU and error)			Check	MCU PWB abnormality "Clean the mirror, the lens, and the
r disconnection			and	reference white plate."
ctor pin breakage			remedy	Check the copy lamp light quantity and its
ect, data failure				operation. (SIM 5-3) Check CCD unit.
rs of the IMC PWB				Check MCU PWB.
g of the copier.	F1	00	Content	Finisher communication trouble
he IMC PWB.			Details	Communication line test error occurs when power is turned on or after the exit of a
is not detected in a to off or ON)				simulation mode. Error in Finisher communication
SU inside harness			Cause	Connection trouble or disconnection of the
tion				connector and harness between the body
on abnormality				and the finisher. Finisher control PWB trouble
inate.				Control PWB failure
tion of the LSU				Malfunction by noises
			Check and	Turn off/of the power to cancel the trouble. Check connector/harness of
ration with SIM 61-1.			and remedy	communication line
on motor rotates			······	Replace the finisher control PWB.
hting.		01	Content	Side guide plated home position error
-			Details	The side guide plate cannot return to the
WB.			Course	home position.
ck correction)			Cause	Side guide plate drive motor abnormality Side guide plate home position sensor
e plate scan level e copy lamp turns off.				abnormality
n failure to CCD unit				Finisher PWB abnormality
			Check	Use SIM3-3-1 to check the side guide
allation to the CCD			and	plate motor operation.
		06	remedy Content	Offset motor trouble
		00	Details	When the offset motor of the finisher is
				driven it does not reach the specified
				position.
			Cause	Offset motor abnormality
				Offset motor origin sensor abnormality Finisher PWB abnormality
			Check	Use SIM 3-3-6 to check the offset motor
		гтат	and	operation.
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Trouble code					
Main code	Sub code	Details of trouble			
F1	08	Content	Staple motor error		
		Details	The staple motor cannot return to the home position.		
		Cause	Staple motor abnormality Staple motor home position sensor abnormality Staple unit abnormality Finisher PWB abnormality		
		Check and remedy	Use SIM 3-3-7 to check the staple motor operation.		
	11	Content	Rear edge plate home position error		
		Details	The rear edge plate cannot return to the home position.		
		Cause	Rear edge plate drive motor abnormality Side guide plate home position sensor abnormality Finisher PWB abnormality		
		Check and remedy	Use SIM 3-3-2 to check the rear edge plate motor operation.		
	15	Content	Finisher lift-up motor trouble		
	_	Details	The finisher lift-up motor does not reach the specified position.		
		Cause	Lift-up motor abnormality Lift-up motor upper limit sensor abnormality Finisher PWB abnormality		
		Check and remedy	Use SIM 3-3-5 to check the lift-up motor operation.		
F2	02	Content	Toner supply failure		
		Details	The value judged from the actual toner supply hysteresis differs greatly from the toner sensor value.		
		Cause	Developing unit trouble Toner supply abnormality caused by installation of unpacked toner cartridge		
		Check and remedy	Replace the developing unit Use SIM 25-1 to perform DV stirring.		

Tro	uble				
	de	Details of trouble			
Main	Sub		Details of trouble		
code	code				
F2	04	Content	Identification error		
			Model error		
			Type error		
			Destination error		
			Data abnormality		
			Misc error		
		Details	Identification error		
			When the CRUM trademark differs.		
			When the CRUM company code differs.		
			Model error When the boot program model code does		
			not match with the CRUM model		
			information.		
			Type error		
			When the CRUM type is other than		
			[Genuine/Conversion/Production rotation].		
			Destination error		
			The destination of the body differs from		
			that of the CRUM.		
			Data abnormality		
			The initial check information includes an erroneous value.		
			When the max, toner supply time is 00:		
			When the print hard stop is 00:		
		Cause	CRUM chip failure		
			Erroneous developing unit		
		Check	Replace the CRUM chip.		
		and	Replace the developing unit		
		remedy			
F5	02	Content	Copy lamp lighting abnormality		
		Details	The copy lamp does not light up.		
		Cause	Copy lamp error Copy lamp harness abnormality		
			CCD PWB harness abnormality		
		Check	Check the copy lamp (SIM 5-3)		
		and	When the lamp lights:		
		remedy	Check the harnesses and connectors		
		-	between the CCD unit and the MCU PWB.		
			When the lamp does not light:		
			Check the harness and connector		
			between the copy lamp and the MCU PWB.		
			Replace the copy lamp unit.		
			Replace the MCU PWB.		
		Remarks	Copy lamp disconnection		
			Cable is not attached.		
F6	00	Content	MCU-FAX communication trouble		
		Details	Communication establishment error/		
			framing/parity/protocol error		
		Cause	FAX control PWB connector disconnection		
			Defective harness between FAX control		
			PWB and MCU PWB		
			Motherboard connector pin breakage FAX control PWB ROM error/Data error		
		Check	Check connector/harness of FAX control		
		and	PWB and MCU PWB.		
		remedy	Check the grounding of the copier.		
			Check FAX control PWB ROM.		
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Trouble code] [Trou co		
Main	Sub	-	Details of trouble		Main	ue Sub	-
code	code	<u> </u>			code	code	0.1
F6	10	Content Details	FAX control PWB trouble Communication trouble between MCU and		F6	88	Conten
		Cause	FAX control PWB FAX control PWB connector disconnection				Details
		Cause	Defective harness between FAX control PWB and MCU PWB				Cause
			Motherboard connector pin breakage				
			FAX control PWB ROM error/Data error IC on FAX PWB causes abnormality				
		Check and	Check connector/harness of FAX control PWB and MCU PWB.				Check and
		remedy	Check the grounding of the copier.				remedy
			Check FAX control PWB ROM. Replace the FAX PWB.			99	Conten
	80	Content	FAX control PWB communication trouble (Protocol)				Details
		Details	Communication trouble between MCU and FAX control PWB (Protocol error)				Cause
		Cause	FAX control PWB connector disconnection Defective harness between FAX control				
			PWB and MCU PWB Motherboard connector pin breakage				Check and
			FAX control PWB ROM error/Data error				remedy
		Check and	Check connector/harness of FAX control PWB and MCU PWB.	-	50	00	Conton
		remedy	Check the grounding of the copier. Check FAX control PWB ROM.		F9	00	Conten Details
	81	Content	FAX control PWB communication trouble				Cause
		Details	(Parity) Communication trouble between MCU and				
		Cause	FAX control PWB (Parity error) FAX control PWB connector disconnection				
		Ouuse	Defective harness between FAX control				
			PWB and MCU PWB Motherboard connector pin breakage				Check
			FAX control PWB ROM error/Data error				and remedy
		Check	Check connector/harness of FAX control PWB and MCU PWB.			10	Orates
		and remedy	Check the grounding of the copier.			10	Conten Details
			Check FAX control PWB ROM.				
	82	Content	FAX control PWB communication trouble (Over-run)				Cause
		Details	Communication trouble between MCU and				
		Cause	FAX control PWB (Overrun error) FAX control PWB connector disconnection				
		Cause	Defective harness between FAX control				
			PWB and MCU PWB				Check
			Motherboard connector pin breakage FAX control PWB ROM error/Data error				and remedy
		Check and	Check connector/harness of FAX control PWB and MCU PWB.			00	Conten
		remedy	Check the grounding of the copier. Check FAX control PWB ROM.			80	
	84	Content	FAX control PWB communication trouble				Details
		Details	(Framing) Communication trouble between MCU and FAX control PWB (Framing error)				Cause
		Cause	FAX control PWB connector disconnection				
			Defective harness between FAX control				
			PWB and MCU PWB Motherboard connector pin breakage				Check
			FAX control PWB ROM error/Data error				and
		Check and	Check connector/harness of FAX control PWB and MCU PWB.				remedy
		remedy	Check the grounding of the copier. Check FAX control PWB ROM. SERVI	CEN	1 1 7 7	т лт	$\lambda I E T$
			Check FAX control PWB ROM SERV1	⊂ <i>L</i> -IV	IAIV(JAL	1V E 1

Trou	uble					
со	de		Details of trouble			
lain	Sub					
ode	code					
F6	88	Content	FAX control PWB communication trouble (Timeout)			
		Details	Communication trouble between MCU and			
			FAX control PWB (Timeout error)			
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB			
			Motherboard connector pin breakage FAX control PWB ROM error/Data error			
		Check and	Check connector/harness of FAX control PWB and MCU PWB.			
		remedy	Check the grounding of the copier.			
			Check FAX control PWB ROM.			
	99	Content	FAX control PWB destination error			
		Details	The machine destination setup does not coincide with the FAX board destination setup.			
		Cause	The machine destination setup (Sim 26-6)			
			does not coincide with the FAX board setup			
		Check	Check the variety of FAX LIU PWB.			
		and	Check the machine destination setup (Sim			
		remedy	22-6) and FAX country code (Soft SW			
			table).			
F9	00	Content	MCU-PRT communication trouble			
		Details	Communication establishment error/			
		0	framing/parity/protocol error			
		Cause	Printer PWB connector disconnection			
			Harness trouble between the printer PWB and the MCU PWB			
			Motherboard connector pin breakage			
			Printer PWB ROM trouble/Data			
		Check	Check the connectors and harness of the			
		and	printer PWB and MCU PWB.			
		remedy	Check the grounding of the copier.			
			Check ROM on printer PWB.			
	10	Content	Printer PWB trouble			
		Details	Communication trouble between MCU and printer PWB			
		Cause	Printer PWB connector disconnection			
			Harness trouble between the printer PWB			
			and the MCU PWB			
			Motherboard connector pin breakage			
			Printer PWB ROM trouble/Data			
			disturbance			
		Check	Check the connectors and harness of the			
		and	printer PWB and MCU PWB.			
		remedy	Check the grounding of the copier. Check ROM on printer PWB.			
	80	Content	Printer PWB communication trouble			
	50	Content	(Protocol)			
		Details	Communication trouble between MCU and			
			printer PWB (Protocol error)			
		Cause	Printer PWB connector disconnection			
			Harness trouble between the printer PWB			
			and the MCU PWB			
			Motherboard connector pin breakage			
			Printer PWB ROM trouble/Data			
		<u> </u>	disturbance			
		Check	Check the connectors and harness of the			
		and	printer PWB and MCU PWB.			
		remedy	Check the grounding of the copier. Check ROM on printer PWB.			
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Trouble					
code Main Sub		Details of trouble			
code	code				
F9	81	Content	Printer PWB communication trouble (Parity)		
		Details	Communication trouble between MCU and printer PWB (Parity error)		
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB		
			Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance		
		Check	Check the connectors and harness of the		
		and remedy	printer PWB and MCU PWB. Check the grounding of the copier. Check ROM on printer PWB.		
	82	Content	Printer PWB communication trouble (Overrun)		
		Details	Communication trouble between MCU and printer PWB (Overrun error)		
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB		
			Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance		
		Check	Check the connectors and harness of the		
		and remedy	printer PWB and MCU PWB. Check the grounding of the copier. Check ROM on printer PWB.		
	84	Content	Printer PWB communication trouble (Framing)		
		Details	Communication trouble between MCU and printer PWB (Framing error)		
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB		
			Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance		
		Check and remedy	Check the connectors and harness of the printer PWB and MCU PWB. Check the grounding of the copier.		
	88	Content	Check ROM on printer PWB. Printer PWB communication trouble		
			(Timeout)		
		Details	Communication trouble between MCU and printer PWB (Timeout error)		
		Cause	Printer PWB connector disconnection Harness trouble between the printer PWB and the MCU PWB		
			Motherboard connector pin breakage Printer PWB ROM trouble/Data disturbance		
		Check	Check the connectors and harness of the		
		and remedy	printer PWB and MCU PWB. Check the grounding of the copier.		
			Check ROM on printer PWB.		

	uble de		
Main code	Sub code		Details of trouble
F9	99	Content	Machine-PCL board language error
		Details	The machine language setup does not coincide with the PCL board language setup.
		Cause	PCL board connection error SIM setup error
		Check and remedy	Check the firmware of the PCL board and the combination of the panel screen data, and download the correct version, if necessary. Check the machine language information.
H2	00	Content	(Machine language setup: SIM 26-22) Main heater lamp thermistor open hard
		Details	detection Main heater lamp thermistor open detection Fusing unit not installed
		Cause	Thermistor defect Control PWB failure Fusing section connector contact failure Fusing unit not installed
		Check and remedy	Check the harness and the connector of the thermistor and the MCU. Clear the display of self-diagnostics with SIM 14.
		Remarks	Thermistor open
	01	Content	Sub heater lamp thermistor open hard
			detection
		Details	Sub heater lamp thermistor open detection Fusing unit not installed
		Cause	Thermistor defect Control PWB failure Fusing section connector contact failure Fusing unit not installed
		Check	Check the harness and the connector of
		and remedy	the thermistor and the MCU. Clear the display of self-diagnostics with SIM 14.
		Remarks	Thermistor open
H3	00	Content	Main heater lamp abnormally high temperature hard detection trouble
		Details	The fusing main heater thermistor causes abnormally high temperature.
		Cause	Main heater lamp thermistor defect Control PWB failure
		Check	Fusing section connector contact failure Check the main heater lamp blinking with
		and	SIM 5-2-1.
		remedy	When the lamp blinks normally:
			Check the thermistor and the harness. Check the MCU PWB thermistor input circuit.
			If lamp lights and stays lit: Check the power PWB and the MCU PWB
			lamp control circuit. Clear the display of self-diagnostics with SIM 14.

Trouble code				
Main	Sub code	Details of trouble		
code H3	01	Content	Sub heater lamp abnormally high temperature hard detection trouble	
		Details	The fusing sub heater thermistor causes abnormally high temperature.	
		Cause	Sub heater lamp	
			Thermistor defect Control PWB failure	
		Check	Fusing section connector contact failure Check the sub heater lamp blinking with	
		and remedy	SIM 5-2-2. When the lamp blinks normally:	
		Temedy	Check the thermistor and the harness. Check the MCU PWB thermistor input circuit.	
			If lamp lights and stays lit: Check the power PWB and the MCU PWB	
			lamp control circuit. Clear the display of self-diagnostics with SIM 14.	
H3	10	Content	Main heater lamp abnormally high temperature soft detection trouble	
		Details	A/D value the fusing main heater lamp	
			thermistor causes abnormally high temperature (over 230°C).	
		Cause	Main heater lamp thermistor defect Control PWB failure	
		Check	Fusing section connector contact failure Check the main heater lamp blinking with	
		and	SIM 5-2-1.	
		remedy	When the lamp blinks normally: Check the thermistor and the harness. Check the MCU PWB thermistor input	
			circuit.	
			If lamp lights and stays lit: Check the power PWB and the MCU PWB	
			lamp control circuit. Clear the display of self-diagnostics with	
	11	Content	SIM 14. Sub heater lamp abnormally high	
		Details	temperature soft detection trouble A/D value the fusing sub heater lamp	
		Details	thermistor causes abnormally high temperature (over 230°C).	
		Cause	Sub heater lamp thermistor defect Control PWB failure	
		Check	Fusing section connector contact failure Check the sub heater lamp blinking with	
		and remedy	SIM 5-2-2. When the lamp blinks normally:	
		remeay	Check the thermistor and the harness. Check the MCU PWB thermistor input	
			circuit. If lamp lights and stays lit:	
			Check the power PWB and the MCU PWB lamp control circuit.	
			Clear the display of self-diagnostics with SIM 14.	

Trouble				
code Main Sub		Details of trouble		
code	code			
H4	00	Content	Main heater lamp abnormally low	
			temperature detection	
		Details	The setup temperature (about 90°C) is not	
			reached within the specified time (about 17sec) from turning on the power ON SW.	
			(When the temperature of main heater	
			lamp thermistor falls below 140°C in the	
			standby mode or printing.)	
			Whether temperature of main heater lamp	
			thermistor falls below 50°C in the pre-heat	
		Cause	mode. Main heater lamp thermistor defect	
		Cause	Main heater lamp failure	
			Main thermostat failure	
			Control PWB failure	
		Check and	Check the heater lamp blinking with SIM 5-2.	
		remedy	When the lamp blinks normally:	
			Check the thermistor and the harness.	
			Check the MCU PWB thermistor input	
			circuit.	
			When the lamp does not light: Check for disconnection of the heater	
			lamp and thermostat.	
			Check the interlock switch.	
			Check the power PWB and the MCU PWB	
			lamp control circuit.	
			Clear the display of self-diagnostics with SIM 14.	
	01	Content	Sub heater lamp abnormally low	
	-		temperature detection	
		Details	The setup temperature (about 90°C) is not	
			reached within the specified time (about	
			17sec) from turning on the power ON SW. (When the temperature of sub heater	
			thermistor falls below 140°C in the standby	
			mode or printing.)	
			Whether temperature of sub heater lamp	
			thermistor falls below 50°C in the pre-heat	
		Course	mode.	
		Cause	Sub heater lamp thermistor defect Sub heater lamp failure	
			Sub thermostat failure	
			Control PWB failure	
		Check	Check the sub heater lamp blinking with	
		and	SIM 5-2-2. When the lamp blinks normally:	
		remedy	Check the thermistor and the harness.	
			Check the MCU PWB thermistor input	
			circuit.	
			When the lamp does not light:	
			Check for disconnection of the heater lamp and thermostat.	
			Check the interlock switch.	
			Check the power PWB and the MCU PWB	
			lamp control circuit.	
			Clear the display of self-diagnostics with	
			SIM 14.	

Trou co	uble de			Trou co		
Main	Sub		Details of trouble		Sub	-
code H4	code 20	Content	Main heater lamp abnormally low	code L1	code 00	Content
		Details	temperature detection The setup temperature (about –25°C: Sim			Details
			43-1-1) is not reached within the specified			Cause
			time (about 32sec) from turning on the power ON SW.			
			When the temperature falls below 140°C			
		Cause	in the standby mode.) Main heater thermistor defect			Check
		Cause	Main heater lamp failure			and remedy
			Main thermostat failure			
		Check	Control PWB failure Check the main heater lamp blinking with			
		and	SIM 5-2.			
		remedy	When the lamp blinks normally: Check the thermistor and the harness.			
			Check the MCU PWB thermistor input			
			circuit. When the lamp does not light:			
			Check for disconnection of the heater			
			lamp and thermostat.	L3	00	Conten
			Check the interlock switch. Check the power PWB and the MCU PWB			Details
			lamp control circuit.			
			Clear the display of self-diagnostics with SIM 14.			
	21	Content	Sub heater lamp abnormally low			Cause
		Details	temperature detection The setup temperature (about –25°C: Sim			
		Detailo	43-1-1) is not reached within the specified			
			time (about 32sec) from turning on the power ON SW.			Check
			(When the temperature falls below 140°C			and remedy
		Course	in the standby mode.)			
		Cause	Sub heater thermistor defect Sub heater lamp failure			
			Sub thermostat failure			
		Check	Control PWB failure Check the sub heater lamp blinking with			
		and	SIM 5-2-2.			
		remedy	When the lamp blinks normally: Check the thermistor and the harness.			
			Check the MCU PWB thermistor input			
			circuit. When the lamp does not light:	L4	01	Conten
			Check for disconnection of the heater			Details
			lamp and thermostat. Check the interlock switch.			
			Check the power PWB and the MCU PWB			
			lamp control circuit. Clear the display of self-diagnostics with			Cause
			SIM 14.			
H5 01	Content	10 continuous POD1, POD2 or PPD2 JAM				
		Details	POD1, POD2, PPD2 JAM was detected 10 continuous times from turning on the			Check and
			power ON.			remedy
		Cause	The fusing JAM is not completely removed. (Jam paper remains.)			
			POD1, POD2, PPD2 sensor breakdown or			
			harness connection trouble			
		Check	Fusing unit installation failure Check for jam paper in the fusing section.			
		and	(paper winding, etc.)			
		remedy	Check fusing unit installation. Check the POD1, POD2 or PPD2 sensor.			
			Clear the trouble with \$10,100,200,100,200,000,000,000,000,000,0			

Trouble				
co Main	de Sub	Details of trouble		
code	code			
L1	00	Content	Scanner feed trouble	
		Details	Scanner feed is not completed within the specified time.	
		Cause	Mirror unit defect	
			Scanner wire disconnection Origin detection sensor error	
			Mirror motor harness abnormality	
		Check and	Check the scanning operation with SIM 1- 1.	
		remedy	Mirror base feed trouble Check for disconnection of the scanner wire.	
			Check the harness and connector between the mirror motor and the MCU PWB.	
			Replace the mirror unit. Replace the MCU PWB.	
			When the mirror feeds:	
			Check the mirror home position sensor with SiM 1-2.	
L3	00	Content Details	Scanner return trouble	
		Details	Scanner return is not completed within the specified time.	
			"When OC copying with the mirror at the	
			home position, the mirror is not in the	
		0	home position. "	
		Cause	Mirror unit defect The scanner wire is disconnected.	
			Origin detection sensor error	
			Mirror motor harness abnormality	
		Check and	Check the scanning operation with SIM 1-	
		remedy	Mirror base return trouble	
		-	Check for disconnection of the scanner wire.	
			Check the harness and connector between the mirror motor and the MCU	
			PWB. Replace the mirror unit.	
			Replace the MCU PWB.	
			When the mirror feeds:	
			Check the mirror home position sensor with SiM 1-2.	
L4	01	Content	Main motor trouble	
		Details	The main motor does not rotate. The motor lock signal is detected for 1sec	
			or more after the main motor rotates.	
			The motor lock signal is detected for 1sec	
		Cause	during rotation of the main motor. Main motor defect	
		Jause	Main motor connection, harness trouble or	
			disconnection	
			MCU PWB failure	
		Check and	Check the main motor operation with SIM 25-1.	
		remedy	Check connection of the main motor	
		,	harness and connector.	
			Replace the main motor.	
			Replace the MCU PWB.	

code Details of trouble Main Sub Details of trouble L4 11 Content Shifter motor trouble L4 11 Content Shifter motor trouble Details The shifter home position detection sign is not detected when the shifter is operating. Operating. Cause Shifter motor trouble or harness connection trouble and disconnection Shifter home position sensor trouble Check Check the shifter motor operation with S and 3-11. remedy Check connection of the shifter motor harness/connector.	nal
code code L4 11 Content Shifter motor trouble Details The shifter home position detection sign is not detected when the shifter is operating. Cause Shifter motor trouble or harness connection trouble and disconnection Shifter home position sensor trouble Check Check the shifter motor operation with S and 3-11. remedy Check connection of the shifter motor	nal
L4 11 Content Shifter motor trouble Details The shifter home position detection sign is not detected when the shifter is operating. Cause Shifter motor trouble or harness connection trouble and disconnection Shifter home position sensor trouble Check Check the shifter motor operation with S and remedy Check connection of the shifter motor	nal
is not detected when the shifter is operating. Cause Shifter motor trouble or harness connection trouble and disconnection Shifter home position sensor trouble Check Check the shifter motor operation with S and 3-11. remedy Check connection of the shifter motor	nal
CauseShifter motor trouble or harness connection trouble and disconnection Shifter home position sensor troubleCheckCheck the shifter motor operation with S and remedyCheck connection of the shifter motor	
connection trouble and disconnection Shifter home position sensor troubleCheckCheck the shifter motor operation with S and 3-11.remedyCheck connection of the shifter motor	
and 3-11. remedy Check connection of the shifter motor	
remedy Check connection of the shifter motor	SIM
namess/connector.	
Replace the shifter motor. Replace the MCU PWB.	
L6 10 Content Polygon motor lock trouble	
Details The polygon motor does not rotate. The motor lock signal is detected for 6s or more after the polygon motor rotates The motor lock signal is detected for 1s during rotation of the polygon motor.	s.
Cause Polygon motor unit failure	
Polygon motor connection, harness	
trouble or disconnection MCU PWB failure	
Check Check the polygon motor operation with	h
and SIM 61-1.	
remedy Check connector/harness of polygon	
motor Replace the polygon motor.	
Replace the MCU PWB.	
L8 10 Content Power abnormality detection trouble	
Details The power status monitoring signal kee power OFF state after passing the specified time (2sec).	ps
Cause Circuit around the power status monitor signal failure.	ing
Check Check whether power status monitoring	a
and signal on MCU PWB is OPEN or not.	5
remedy Replace MCU PWB.	
U1 01 Content FAX battery error Details The SRAM backup battery voltage on F PWB falls.	AX
Cause The SRAM backup battery voltage on F PWB falls.	AX
Check Check voltage of the SRAM back up	
and battery.	
remedy Replace the battery.	
02 Content PANEL LOW battery error Details The voltage of the panel clock function	
battery falls.	
Cause The voltage of the panel clock function battery falls.	
Check Check voltage of panel clock function	
and battery.	
remedy Replace the battery. U2 04 Content EEPROM communication error	
Details MCU PWB EEPROM access circuit fail	ure
Cause EEPROM defective	
ICU PWB EEPROM access circuit failu	
Check Check that the EEPROM is properly se	t.
and Clear trouble with SIM 16. remedy Replace the MCU PWB.	
Remarks EEPROM abnormality	

Troi			
Main code	Sub code		Details of trouble
U2	20	Content	Machine speed code data error
		Details	The machine (Boot) speed information is not identical to the model code speed information.
		Cause	EEPROM defective SIM operation error
		Check and remedy	Check that the machine set with SIM 26- 57 is identical to the model information.
		Remarks	When the boot program speed code does not match with the body model information.
	40	Content	CRUM chip communication error
		Details	Error in MCU-CRUM chip communication
		Cause	CRUM chip failure Developing unit contact trouble MCU PWB failure
		Check	Replace the CRUM chip.
		and	Check installation of the developing unit.
		remedy	Clear the trouble with SIM 16. Replace the MCU PWB.
		Remarks	CRUM communication error
U7	00	Content	RIC communication trouble
		Details	Error in communication with RIC Error in communication test after turning on the power or canceling SIM. Connector harness contact trouble or
		Cause	disconnection RIC control PWB trouble
			MCU PWB failure Malfunction by noises
		Check	Check the communication cable,
		and .	connectors from the RIC box to the main
110	00	remedy	body.
U9	00	Content Details	MCU-OPE communication trouble Communication establishment error/
		Details	framing/parity/protocol error
		Cause	Operation control PWB connector disconnection
			Operation control PWB MCU PWB harness failure
		Check	Check the connectors and harness of the
		and	operation control PWB and MCU PWB.
		remedy	Check the grounding of the copier.
			Check ROM on the operation control PWB.
	80	Content	Operation control PWB communication trouble (Protocol)
		Details	Communication trouble between MCU and the operation control PWB (Protocol error)
		Cause	Operation control PWB connector disconnection
			Operation control PWB MCU PWB harness failure
		Check	Check the connectors and harness of the
		and	operation control PWB and MCU PWB.
		remedy	Check the grounding of the copier.

Troi co	uble		
Main	Sub		Details of trouble
code U9	code 81	Content	Operation control PWB communication trouble (Parity)
		Details	Communication trouble between MCU and the operation control PWB (Parity error)
		Cause	Operation control PWB connector disconnection
			Operation control PWB MCU PWB harness failure
		Check	Check the connectors and harness of the
		and remedy	operation control PWB and MCU PWB. Check the grounding of the copier.
	82	Content	Operation control PWB communication trouble (Overrun)
		Details	Communication trouble between MCU and the operation control PWB (Overrun error)
		Cause	Operation control PWB connector disconnection
			Operation control PWB MCU PWB harness failure
		Check	Check the connectors and harness of the
		and remedy	operation control PWB and MCU PWB. Check the grounding of the copier.
U9	84	Content	Operation control PWB communication trouble (Framing)
		Details	Communication trouble between MCU and the operation control PWB (Framing error)
		Cause	Operation control PWB connector disconnection
			Operation control PWB MCU PWB harness failure
		Check	Check the connectors and harness of the
		and	operation control PWB and MCU PWB.
	88	remedy Content	Check the grounding of the copier. Operation control PWB communication
	00	Content	trouble (Time-out)
		Details	Communication trouble between MCU and the operation PWB (Time-out error)
		Cause	Operation control PWB connector disconnection
			Operation control PWB MCU PWB harness failure
		Check and	Check the connectors and harness of the operation control PWB and MCU PWB.
	00	remedy	Check the grounding of the copier.
	99	Content Details	Operation panel destination error An error occurred in checking the
		Detallo	destination of the operation panel and the main body.
		Cause	Erroneous connection the operation panel unit
			SIM setup error
		Check	Check the destination information of the
		and remedy	operation panel unit and the MCU. (Use SIM 26-6 for the destination of the body.)
	l		

Trouble code			Details of trouble	
Main code	Sub code			
EE	EL	Content	Developer adjustment trouble (Over-toned abnormality)	
		Details	An abnormality occurred in execution of automatic developer adjustment. Sample data was detected over-toner.	
		Cause	Toner concentration sensor abnormality Toner concentration trouble Developing unit trouble MCU PWB failure	
		Check and remedy	Use SIM 25-2 to perform the auto developer adjustment.	
	EU	Content	Developer adjustment trouble (Under- toned abnormality)	
		Details	An abnormality occurred in execution of automatic developer adjustment. Sample data was detected under-toner.	
		Cause	Toner concentration sensor abnormality Toner concentration trouble Developing unit trouble MCU PWB failure	
		Check and remedy	Use SIM 25-2 to perform the auto developer adjustment.	
PF	00	Content	RIC communication error	
		Details	The copy inhibit command from RIC is received.	
1		Cause	Judged by the host.	
		Check and remedy	Inform to the host.	

[10] DISASSEMBLY, ASSEMBLY AND MAINTENANCE

1. Maintenance table

 $\times:$ Check (Check, clean, replace or adjust according to necessity.)

O: Cleaning \blacktriangle : Replace \Rightarrow : Lubricate

Unit	Parts	75k	150k	225k	300k	375k	450k	Note
Process unit	Drum							
	Cleaning blade							
	Seal F/R	×	×	×	×	×	×	
	Drum frame unit	×	×		×	×		
	MC unit							MC unit supply only (Individual parts in MC unit can not be supplied.)
	Separation pawl unit	×		×		×		Separation pawl unit supply only (Individual parts in separation pawl unit can no be supplied.)
Star ring	Star ring	×	×	×	×	×	×	
DV unit	Developer							
	DV seal	×		×		×		
	DV side seal N	×		×		×		
	DV side seal N2	×		×		×		
	DV side mylar	×		×		×		
	DV moquette	×	×	×	×	×	×	
	Toner sensor	×	×	×	×	×	×	
Fusing unit	Upper heat roller	0		О		О		
	Lower heat roller	0	О	0		0	О	
	Upper separation pawl	0		О		О		
	Upper cleaning Pat	×		×		×		
	Lower separation pawl	0	0	0		0	О	
	Thermistor	0	О	0	0	0	О	
	Upper roller gear	\$		\$		\$		
	Upper roller bush	×		×		×		
	Lower heat roller bearing	×	×	×		×	×	
	Paper guide	0	О	0	0	0	О	
Paper feed	Pickup roller (Multi bypass tray)	×	×	×	×	×	×	Changing criteria for parts: 100k
	Paper feeding sheet (Multi bypass tray)	×	×	×	×	×	×	Changing criteria for parts: 100k
	Pickup roller (500 sheets tray)	×	×	×	×	×	×	Changing criteria for parts: 100k
	Paper feeding sheet (500 sheets tray)	×	×	×	×	×	×	Changing criteria for parts: 100k
	Pickup roller and feed roller (SPF/ RSPF)	×	×	×	×	×	×	
	Paper feeding sheet (SPF/RSPF)	Х	×	×	×	×	×	Changing criteria for parts: 100k
Transport	Transport roller unit	0		О		О		Transport unit supply only
unit	Gear	×	_	×	-	×	-	(Only transport gear is supplied as the service parts.)
Ozone filter	Ozone filter							
Others	Paper feed rollers	0	0	0	О	О	0	
	Gears	☆	\$	☆	☆	\$	\$	

2. Counter clear

Item	SIM	Remarks
Maintenance cycle setting	SIM 21-1	
Jam/trouble counter clear	SIM 24-1	
Paper feed counter clear	SIM 24-2	At maintenance
DF/Scan/Stapler counter clear	SIM 24-3	At maintenance
Maintenance counter clear	SIM 24-4	At drum replacement
Developing counter clear	SIM 24-5	At developer replacement
Copy counter clear	SIM 24-6	
Drum counter clear	SIM 24-7	At drum replacement
Printer, other counter clear	SIM 24-9	
FAX counter clear	SIM 24-10	
Scanner mode counter clear	SIM 24-15	

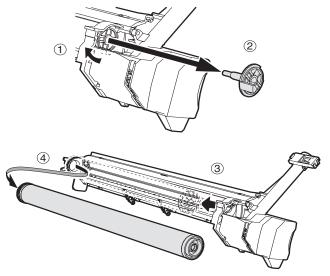
3. List of disassembly and assembly

Unit		Parts			
A. Process unit	(1)	Drum			
	(2)	Drum section	a.	Main charger	
			b.	Cleaning blade	
			c.	Drum frame unit	
			d.	Moquette F/R	
			e.	Separation pawl	
B. Developing unit	(1)	Developer			
	(2)	DV seal/side seal N/side seal N2/side			
		mylar			

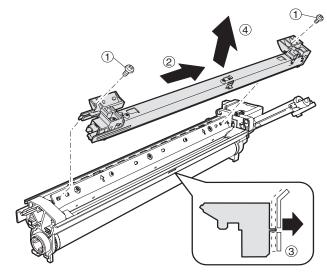
Unit			Part	s	4.	Details of d
C. Fusing unit	(1)	Thermostat	i uit	5		
	(2)	Thermistor			Α.	. Process unit
	(3)	Paper guide			(1) Drum
	(4)	Fusing Separat		Pawl (lower)		
	(5)	Lower heat rolle	ər			
	(6)	Heater lamp				
	(7) (8)	Fusing Separat		awi (upper)		
D. Optical section	(1)	CCD unit	51			
D. Optiour coolion	(2)		a.	Lamp		K
	. ,		b.	PWB		
			C.	Wire		
			d.	Mirror motor		
E. Paper feed	(1)	Paper feed sole				4
section	(2)	Cassette senso			(
	(3)	Manual P-in sei Multi manual	1	Manual empty sensor		
	(4)	paper feed	a.	Paper feed roller/ pickup roller		
		paper leeu	b.	Reverse sensor		
			с.	Separation sheet		
			d.	Clutch/solenoid		
· · · · · · · · · · · · · · · · · · ·	(5)	Upper 500	a.	Paper feed roller/		
		sheets tray		pickup roller	(0)	
		paper feed	b.	Separation sheet	•) Drum section
	(6)	Lower 500 sheets tray	a.	Paper feed roller/ pickup roller	a.	Main charger
		paper feed	b.	Separation sheet		
			C.	Lift up unit		
			d.	Transport clutch		1
			e.	Paper feed clutch		U
			f.	Transport clutch		
			g.	Solenoid		M. no
			h.	Sensor PWB		
			Ι.	Dehumidification heater		
F. Side door unit	(1)	Transport roller				
	(2)	Transport roller				
	(3)	DUP transport	roller			
G. 1st paper exit	(4) (1)	DUP motor Exit roller				
unit	(1)	Cooling fan				
H. 2nd paper exit	(1)	Switch				
unit	(2)	Sensor				Self-
	(3)	Roller				Ψ
I. Laser unit	(1)	LSU			b.	Cleaning blade
J. Power unit	(1)	Power source			2.	J
K. PWB	(1)	Option CN PWI	В			
	(2)	IMC PWB				
	(3)	MCU PWB				
	(4)	Motherboard P				
	(5)	Second interfac	e PV	VB		
L. Ozone filter						
M. Drive section	(1)	DUP reverse m				(2)
	(2)	Main drive motor	or			
	(3)	Toner motor				
	(4)	Drive unit	itch			
	(5) (6)	PS transport clu Paper feed clut				
	(6)	Lift up motor				
N. Transport section	(1)	Transport roller				S YOU
O. Operation	(1)	Operation secti				4
section	(1)	OPU PWB				
	(3)	Key PWB				Sel P
	(4)	LCD unit			an	ل ا
P. Switch	(1)	Power switch/		WWW.SERVI	CE-MA	ANUAL.NET
		·				

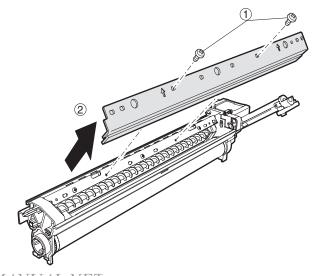
4. Details of disassembly and assembly

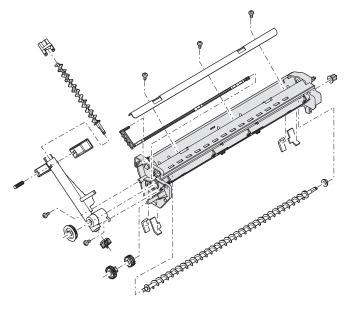
- A. Process unit
- (1) Drum



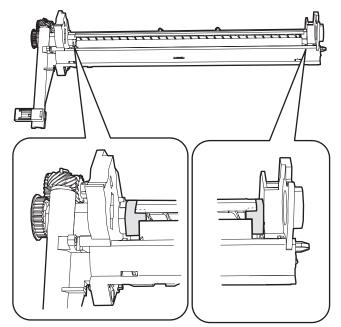
(2) Drum section







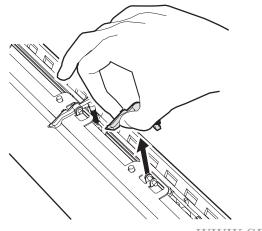




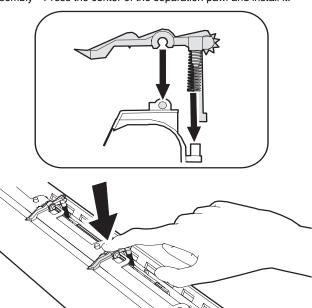
Note: If it disturbs the blade movement, replace it and attach new one.

e. Separation pawl

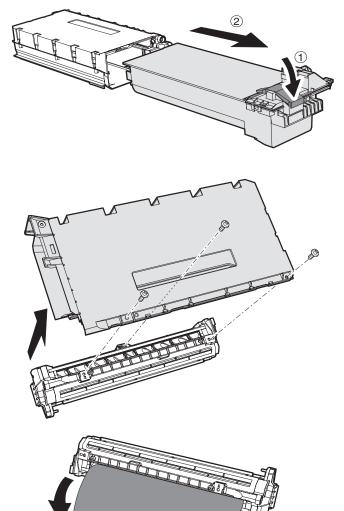
 $\ensuremath{\mathsf{Disassembly}}^*$ Hold the tip of the separation pawl and remove it.

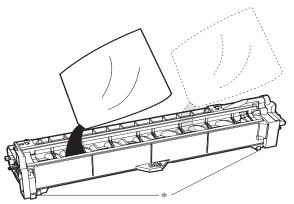


Assembly* Press the center of the separation pawl and install it.



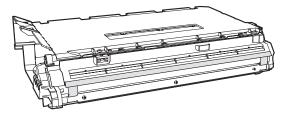
- **B.** Developing section
- (1) Developer



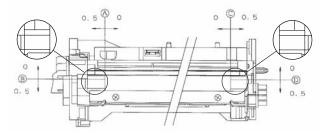


* When assembling, check that the hook is securely engaged in two positions.

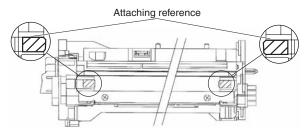
(2) DV seal/side seal



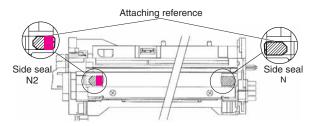
[DV seal attachment procedure]



1) When attaching the DV side Mylar, check the position shown in the figure below and attach it properly.



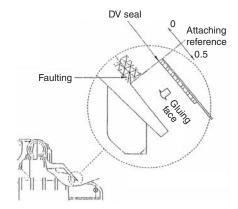
When attaching the DV side seal, check the position shown in the figure below and attach it properly.
 (First of all, attach the DV side Mylar.)



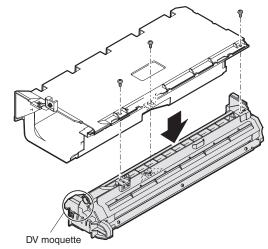
The attachment reference is the same, but the area of the N2 shape is reduced to half as shown with the red square in the above figure.

* Be sure to attach the DV side sheet so that the notch is on the outside.

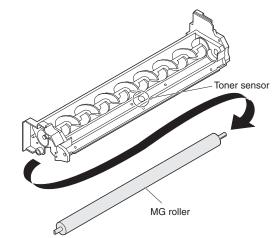
Note: Attach it to fit with the attachment reference when replacing the DV seal.



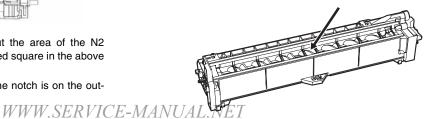
- (3) DV moquette/Toner sensor
- a. DV moquette



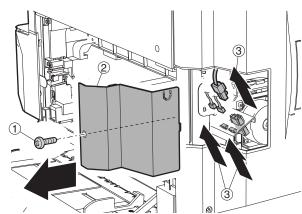
b. Toner sensor

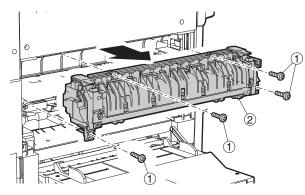


- Clean the sensor only after removing used DV when replacing DV.
- There is no need to remove the MG roller as shown in the above figure. Use waste cloth to remove toner from the sensor surface in the arrow direction shown in the figure below.

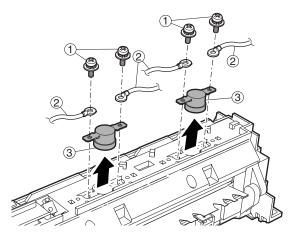


C. Fusing section

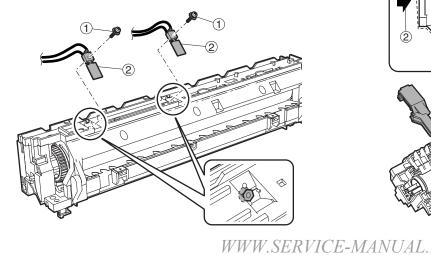




(1) Thermostat

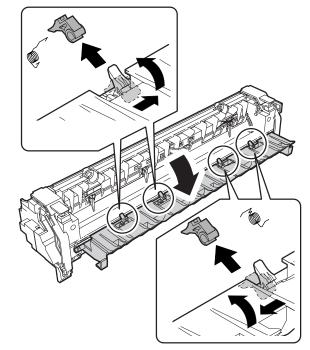


(2) Thermistor

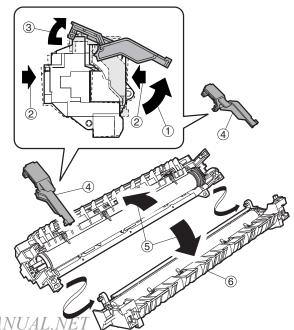


(3) Paper guide

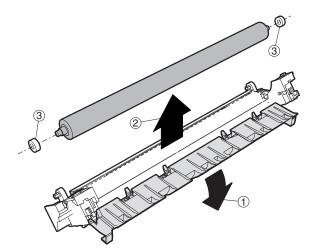
- (4) Fusing Separation Pawl (lower)



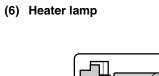
(5) Lower heat roller

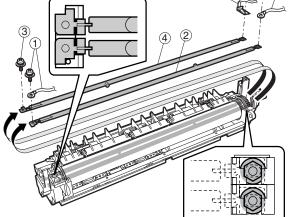


AR-M236/M276/M237/M277 DISASSEMBLY, ASSEMBLY AND MAINTENANCE 10 - 5

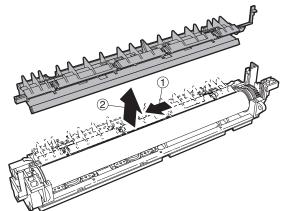


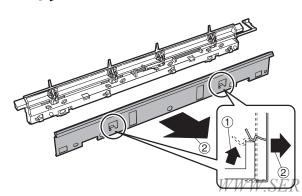
(8) Upper heat roller

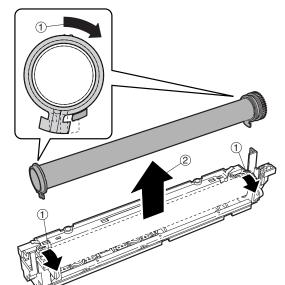


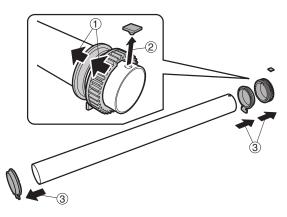


(7) Fusing Separation Pawl (upper)

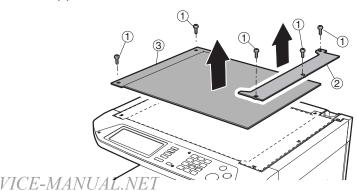




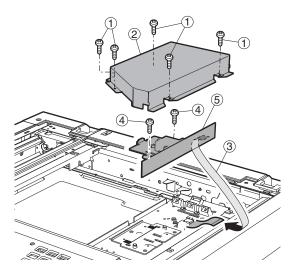




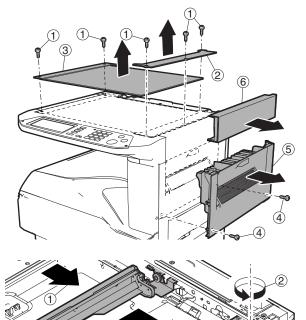
D. Optical section (1) CCD unit



AR-M236/M276/M237/M277 DISASSEMBLY, ASSEMBLY AND MAINTENANCE 10 - 6

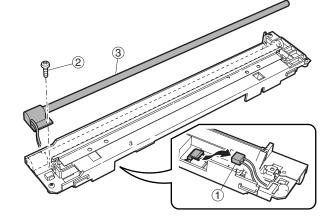


(2) Lamp unit

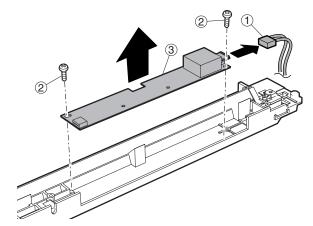


1

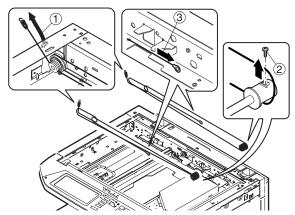
a. Lamp

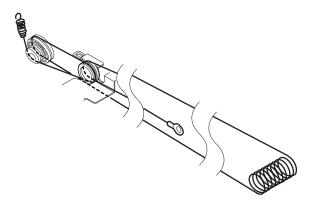


b. PWB

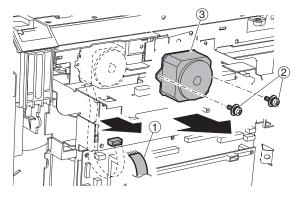


c. Wire

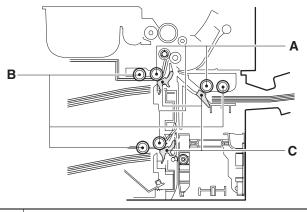




d. Mirror motor

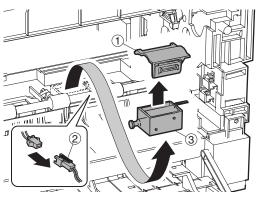


E. Paper feed section

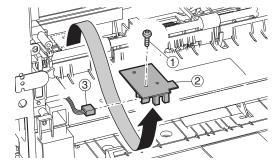


Α	Paper feed roller
В	Pickup roller
С	Separation sheet

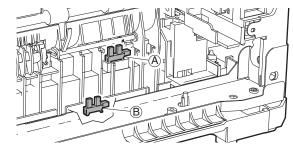
(1) Paper feed solenoid



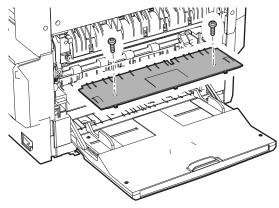
(2) Cassette sensor PWB

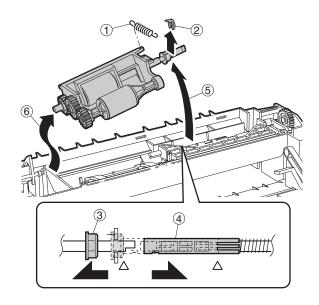


(3) Manual P-in sensor/Manual empty sensor

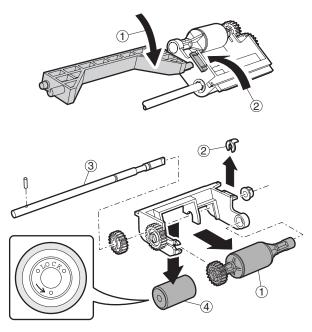


- (4) Multi manual paper feed
- a. Paper feed roller/pickup roller

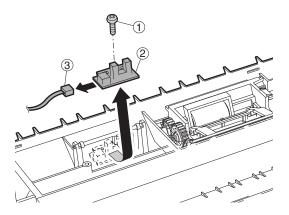


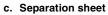


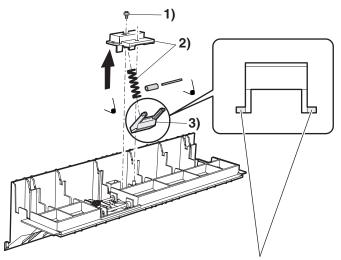
Installation * Install so that the cam transmit arm (1) comes under the roller arm (2).



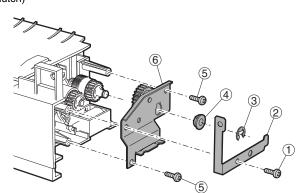
b. Reverse sensor

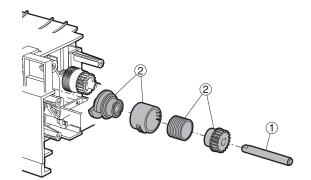




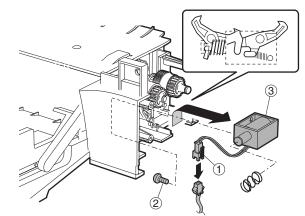


 Slightly apply grease GP501MR (UKOG-0012QSZZ) around the axis. One rice grain for each. **d. Clutch/solenoid** (Clutch)

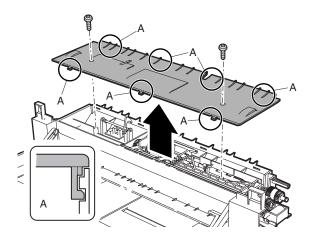


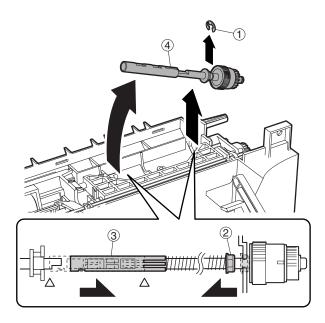


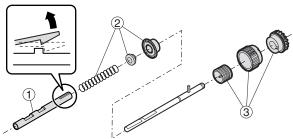
(Solenoid)



(Clutch)

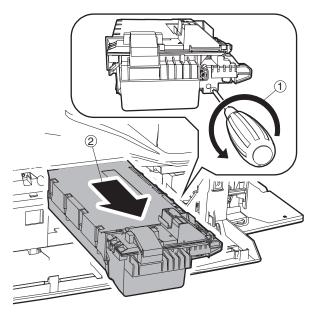


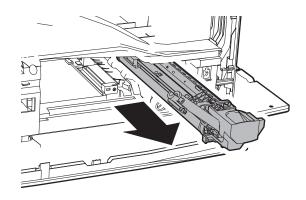




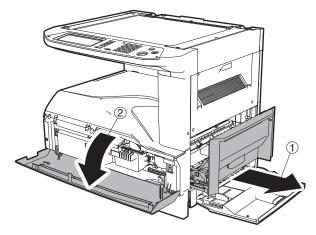
(5) Upper 500 sheets tray paper feed

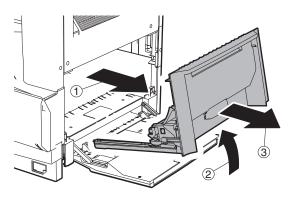
a. Paper feed roller/pickup roller

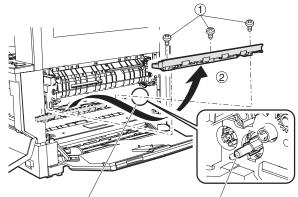




Note: With the toner cartridge installed, do not tilt or shake the developer cartridge.

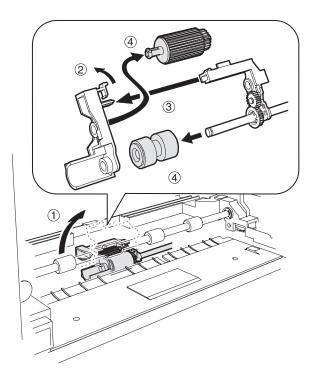




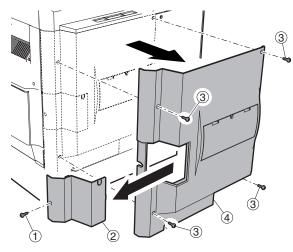


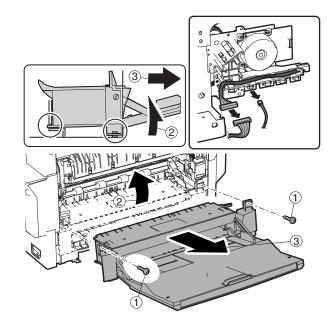
* When replacing, be careful not to adhere conduction grease (black) to the drive section.

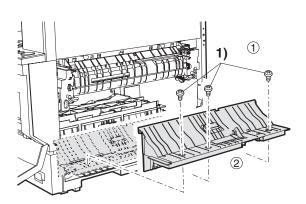
Slightly apply grease GE676 (UKOG-0013QSZZ) to the drum boss.

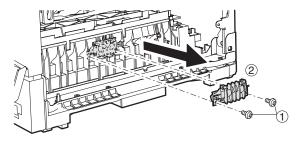


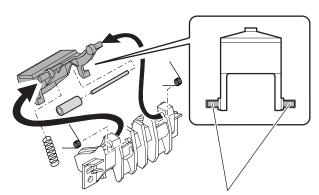
b. Separation sheet







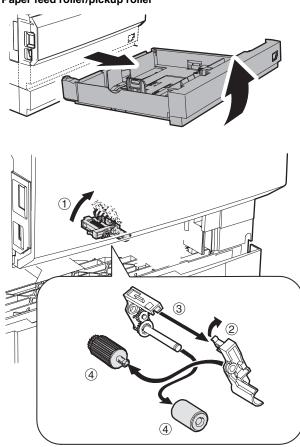




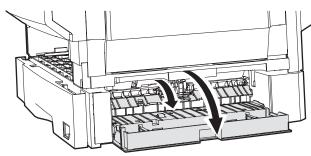
 Slightly apply grease GP501MR (UKOG-0012QSZZ) around the axis. One rice grain for each. Grease should not come out when assembling.

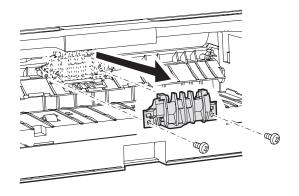
(3) Lower 500 sheets tray paper feed

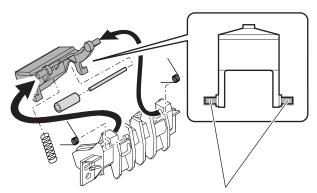
a. Paper feed roller/pickup roller



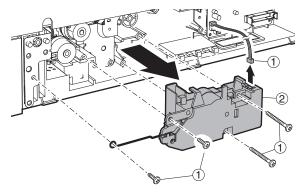
b. Separation sheet



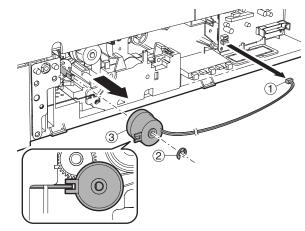




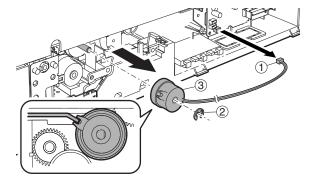
- Slightly apply grease GP501MR (UKOG-0012QSZZ) around the axis. One rice grain for each. Grease should not come out when assembling.
- c. Lift up unit

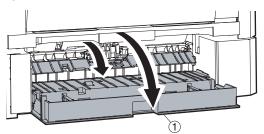


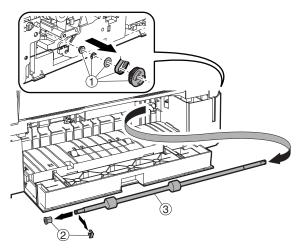
d. Transport clutch



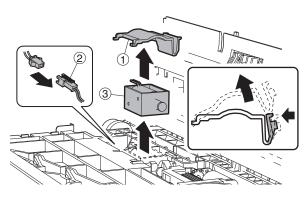
e. Paper feed clutch



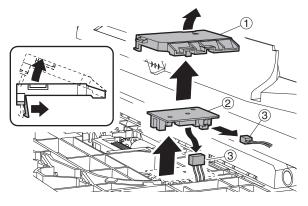




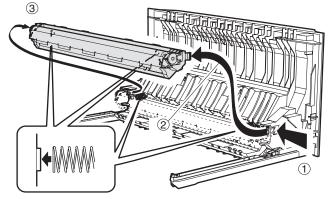
g. Solenoid



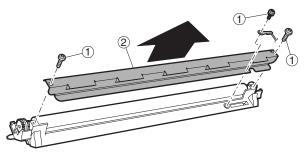
h. Sensor PWB

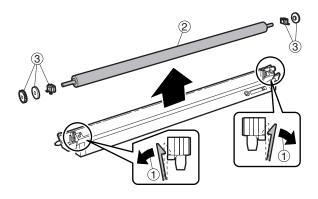


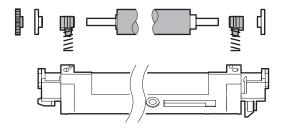
- F. Side door unit
- (1) Transport roller unit

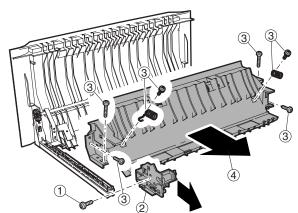


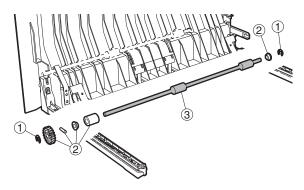
- * Check that two springs are securely inserted into the transfer roller unit bosses.
- (2) Transport roller



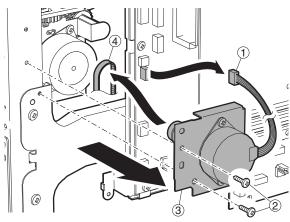


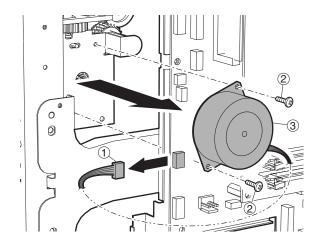






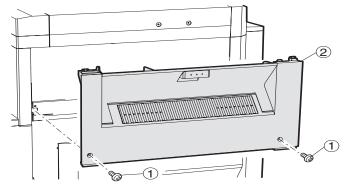
(4) DUP motor



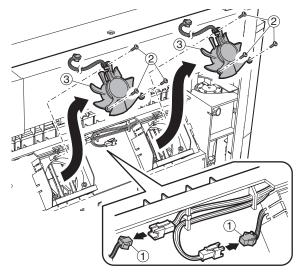


G. 1st paper exit unit

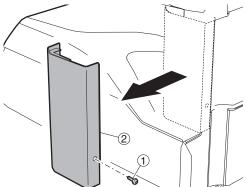


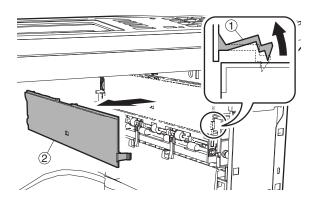


(2) Cooling fan

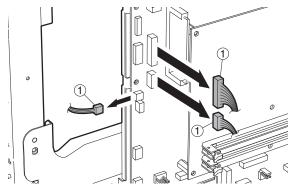


• Remove the front right cabinet.

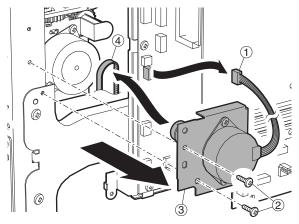




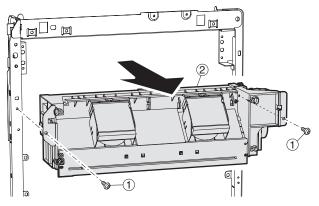
• Remove the MCU PWB section connector.

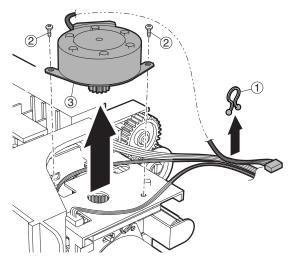


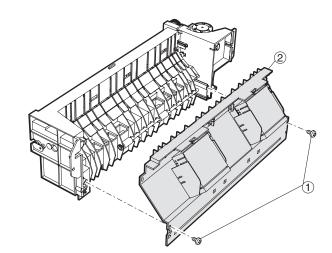
• Remove the DUP motor.

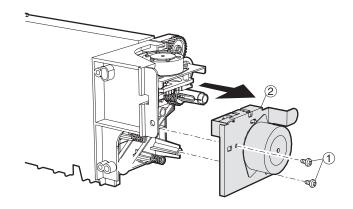


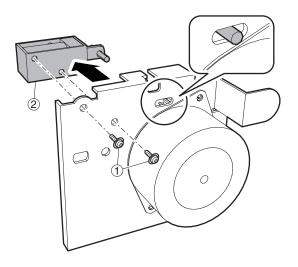
• Remove the delivery frame.

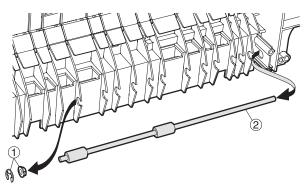




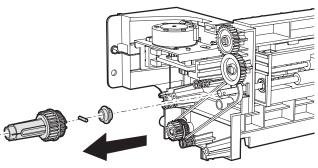




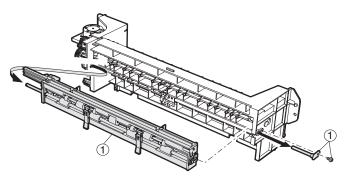


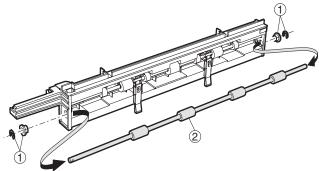


(1) Switch

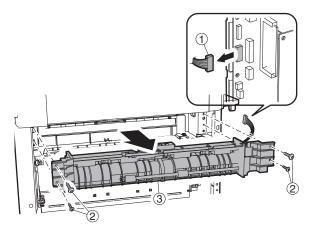


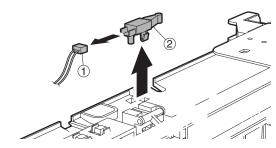
Note: Check to confirm that the solenoid shaft is in the gate bracket, and fix with the screw.





H. 2nd paper exit unit

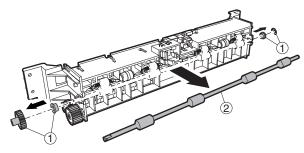


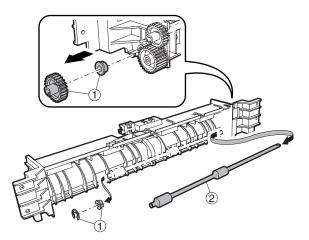


(2) Sensor

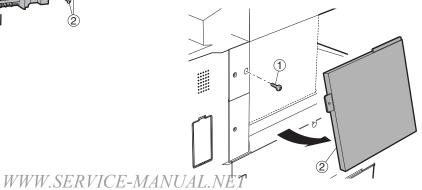


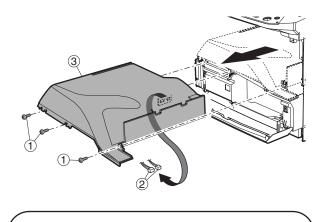
(3) Roller

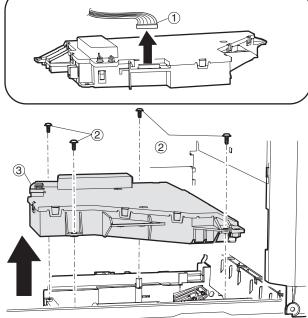




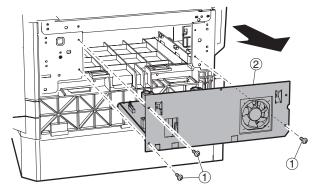
- I. Laser unit
- (1) LSU

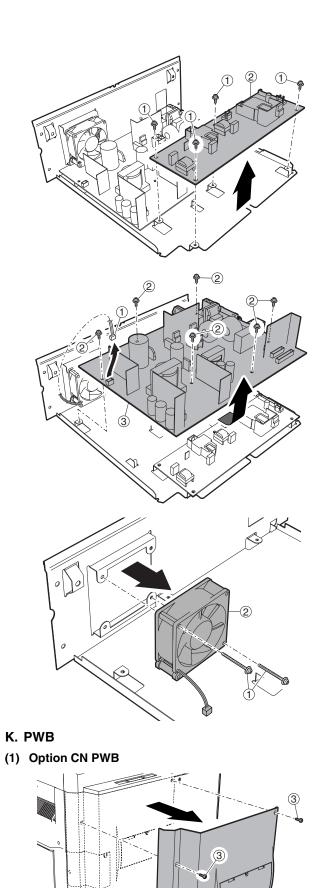






- J. Power unit
- (1) Power source





3

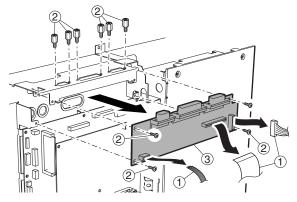
4

3

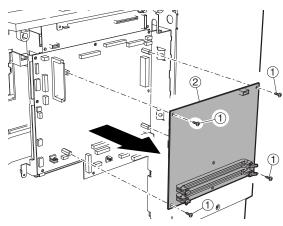
2

AR-M236/M276/M237/M277 DISASSEMBLY, ASSEMBLY AND MAINTENANCE 10 - 17

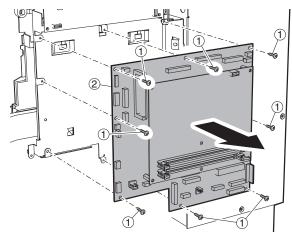
(4) Motherboard PWB

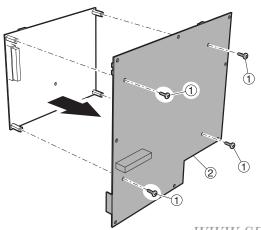


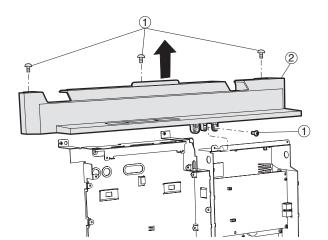
(2) IMC PWB

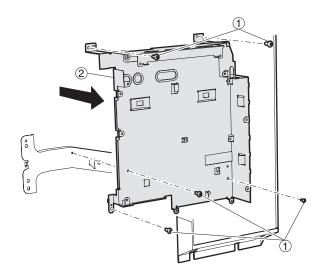


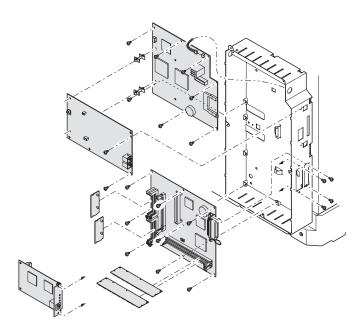
(3) MCU PWB

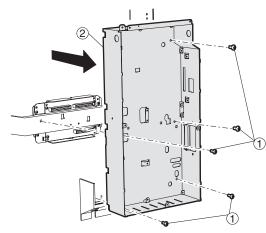


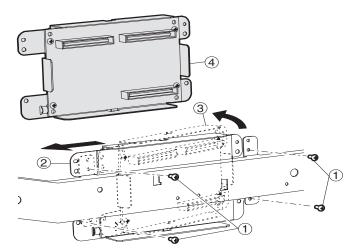


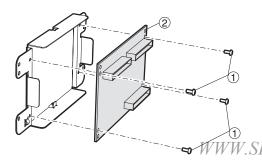




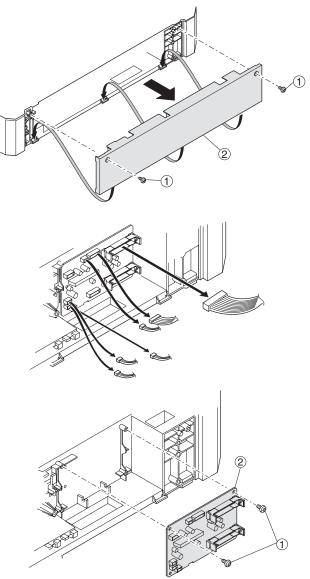




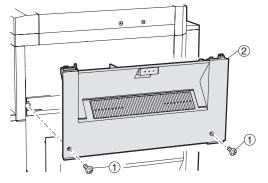


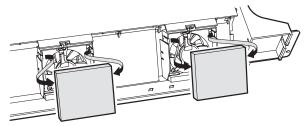


(5) Second interface PWB

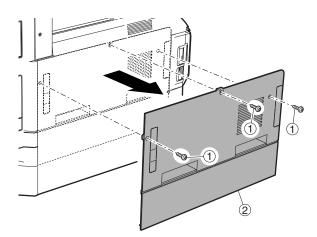


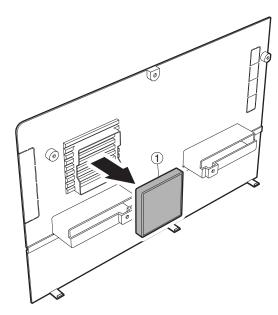
L. Ozone filter





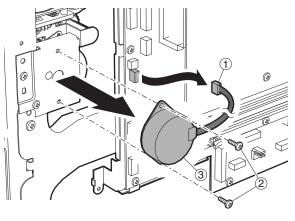
1 Note: Before removing the left cover, remove the No.1 cassette in WWW.SERVICE-MANUAL.NET



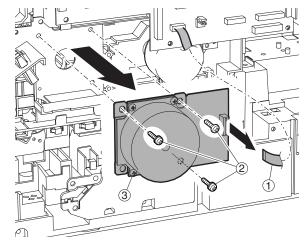


M. Drive section

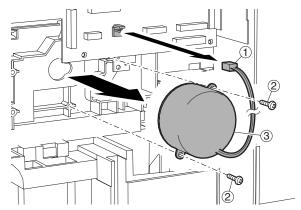
(1) DUP reverse motor



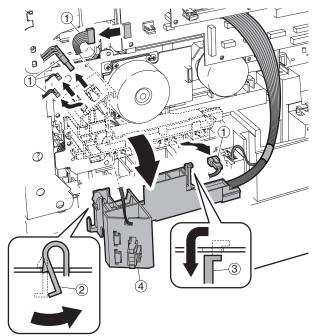
(2) Main drive motor

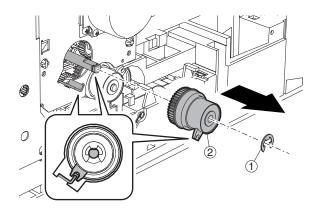


(3) Toner motor

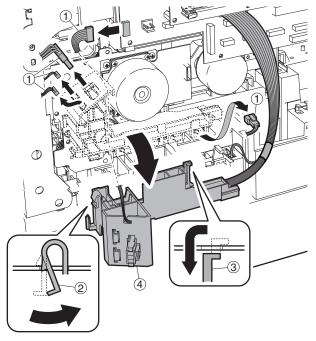


(4) PS transport clutch

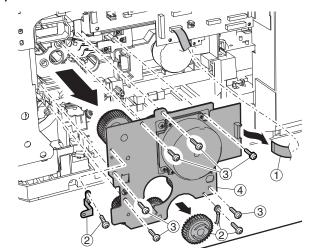




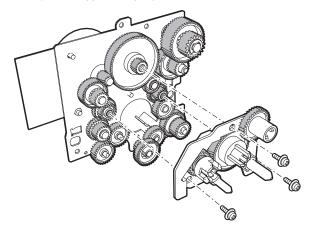
(5) Paper feed clutch



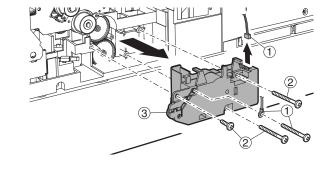
(6) Drive unit

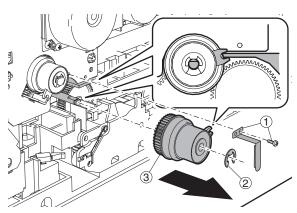


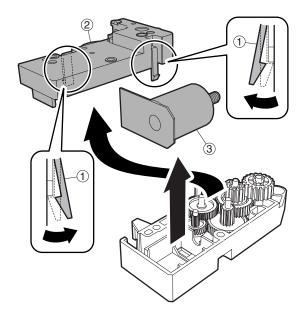
Drive unit (Grease application part)



(7) Lift up motor

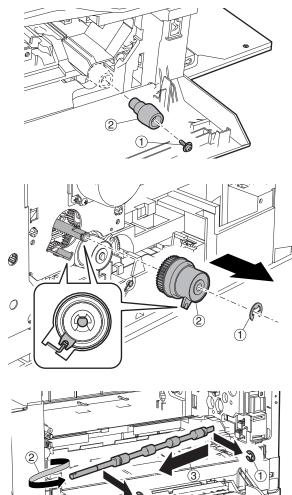


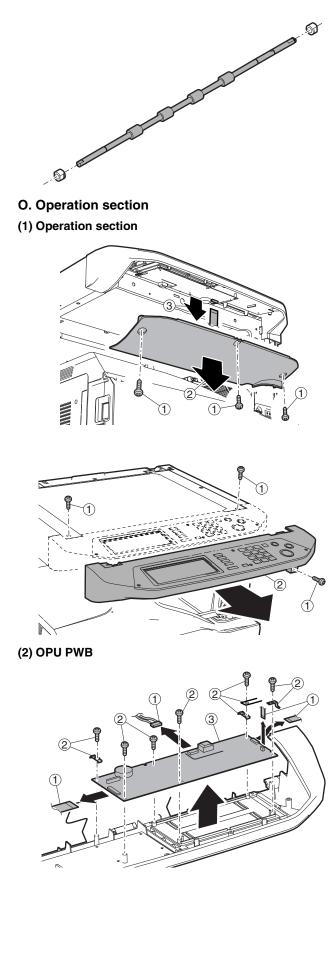




N. Transport section

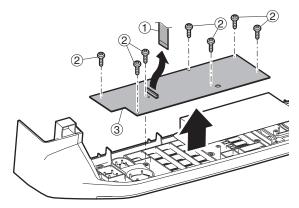
(1) Transport roller



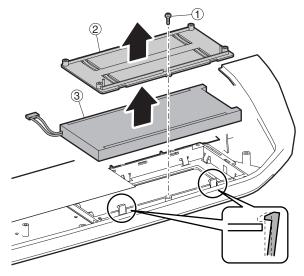


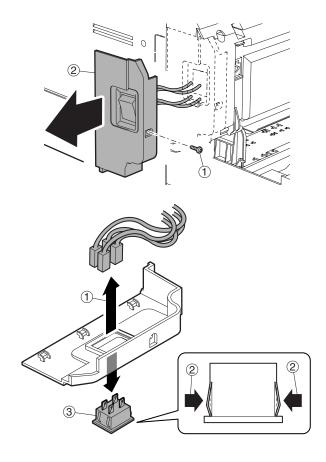
WWW.SERVICE-MANUAL.NET

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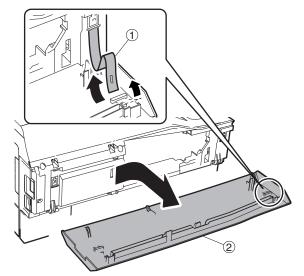






P. Switch

(1) Power switch



[11] OTHERS

1. Flash ROM version-up procedure

(Necessary items for version-up)

- A Personal computer
- B RS232C cross cable (D-sub 9pin to D-sub 9pin, or D-sub 25pin to D-sub 9pin)
- C Software for version-up

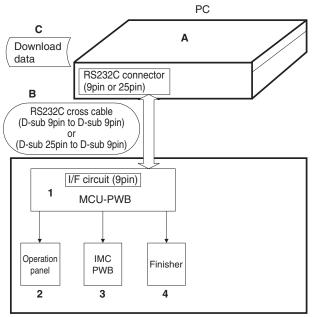
(ROM type)

The flash ROM is directly installed to each PWB.

(Target PWB)

- 1 MCU PWB
- 2 Panel PWB
- 3 IMC PWB
- 4 Finisher PWB

Outline of Version-up Procedure



(AR-M236/M276/M237/M277)

Prepare following files necessary for program download

- Maintenance software: maintenance.exe
- Andromeda module file: ProcModelC.mdl (for AR-M236/M276/ M237/M277 series)

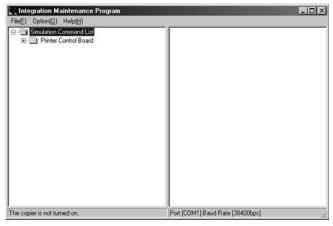
A. Program download method (for Copier, and fax program)

Following operational procedures are for:

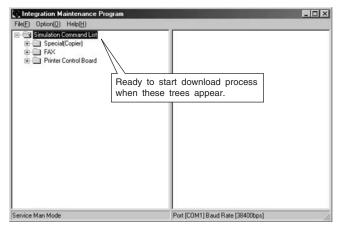
- Copier program
- fax program
- 1) Make sure copier is off, and connect it to PC with download cable beforehand.
- Start up the maintenance program on PC. Select model name "AR-M236/M276/M237/M277 Series" from the model selection dialogue box.

Select Model		×
AR-M236/M276/M237/M2 77 series		
	Select (<u>S</u>)	Cancel

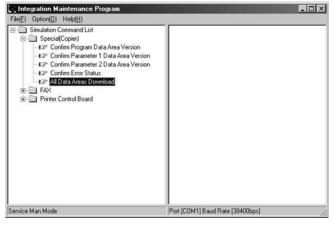
 Make sure only "Printer Control Board" tree is visible under "Simulation Command List".



- 4) Turn on the copier. The machine starts up in the download mode.
- Additional tree will be visible when downloading maintenance program on PC.
- * Make sure to start up maintenance program before turn on the machine.



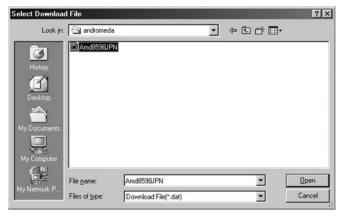
 When downloading copier program, expand "Special(Copier)", and double-click on "All Data areas Download".



When downloading Fax program, Expand "FAX" and double click on "Program Data Area Download".

Integration Maintenance Program		_ 🗆 ×
File[] Option(2) Help(±) Image: Smulation Command List Image: Smulation Command List		
Service Man Mode	Port [COM1] Baud Rate [38400bps]	1

7) Select download file(*.dat), and press "Open" button.



8) Download procedure starts automatically.



- Notice message "Download is complete. Check the copier panel to make sure the download is complete." will appear on PC.
- 10) Close the maintenance program, and turn off the copier. Turn on the copier again after pulling the plug.

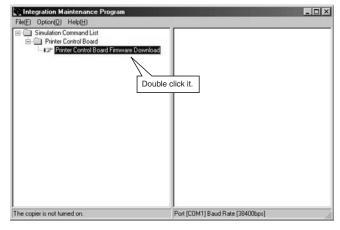
This is the end of download procedure.

It is possible that download process somehow went wrong if the copier does not start up properly. In that case, start up the copier and maintenance program in download mode by repeating the step 1)-5) again. And then, Expand "Special", and double-click on "Confirm Error Status". If any of the message besides "No error has been occurred" appears, it means that download is incomplete, so please try again.

B. Printer Control Board firmware download method

Please follow the procedure below:

- 1) Make sure copier is turned off, and connect PC and Printer Control board of the copier by parallel cable beforehand.
- * Note: It is okay to use serial cable instead.
- 2) Turn on the copier.
- Start up in copier test command mode, and execute Sim67-14 "FLASHDOWNLOAD".
- And then, press OK key when notice message "PRESS OK KEY" appears on the panel. Another message "Please Send Data" will appear after a while.
- Start up the maintenance program on PC. Select model name "AR-M236/M276/M237/M277 Series" from the model selection dialogue box.
- Expand "Printer Control Board", and double-click on "Printer Control Board Firmware Download".



7) Dialog box will appear to select download file.

Select Downloa	nd File				? ×
Look jn	andromeda		*	+ 🗈 💣 📰 •	
History	admd00350	1. stu			
Desktop					
My Documents					
My Computer					
My Network P	File name:	admd003501		•	<u>O</u> pen
my we work P	Files of type:	Download File(*.sfu)		•	Cancel

- 8) Select Download file(*.sfu) and press "Open" button.
- 9) Download procedure will starts automatically.
- 10) Notice message "Data Send Complete" will appear on PC.
- 11) Notice message "Download is complete. Check the copier panel to make sure the download is complete." will appear on PC.
- 12) Close maintenance program, and reset the machine by pressing CA key.
- This is the end of the download procedure.

C. Others (Troubleshooting)

Followings are the error possibly occur during the download process and troubleshooting method.

No	Warning/error message	Detail
1	Incorrect destination. Continue with the	Destination of download file and copier doesn't match.
	download process?	Possible to select either continue or cancel the job.
		[TROUBLESHOOTING]
		To change destination, select "Yes". If not, select "No" and cancel download process.
2	Incorrect download file.	Invalid download file for the machine is selected, or the file format is not correct.
		[TROUBLESHOOTING]
		Confirm the download file. Possibly the improper download file is selected.
3	No downloadable data included.	Unable to find appropriate data in selected download file.
		[TROUBLESHOOTING]
		Confirm the download file. Possibly the improper download file is selected.
4	This option not available.	Download procedure is executed on uninstalled optional kit.
		[TROUBLESHOOTING]
		Confirm installed optional kit.
		Confirm the download file. Possibly the improper download file is selected.
5	The data size exceeds the Flash ROM size.	Panel flash ROM size is not enough to execute download procedure.
	Try again with the appropriate size of data.	[TROUBLESHOOTING]
		Confirm the download file. Possibly the improper download file is selected.
		Exchange the flash ROM to the one which has more capacity.
6	Time out error.	Transmission error
		Unable to receive data from the machine among the certain period of time.
		[TROUBLESHOOTING]
		Restart maintenance program after confirming communication port or communication cable.
7	Communication (incoming) error.	Incorrect download procedure.
		The machine did not proceed download procedure correctly.
		[TROUBLESHOOTING]
		Restart maintenance program after confirming communication port or communication cable.
		Make sure the communication device of PC(either COM or parallel) is under right condition.
8	Checksum error.	Transmission error
		The check sum value of the transmission data is mismatch.
		[TROUBLESHOOTING]
		Restart maintenance program after confirming communication device of PC (either COM or
~		parallel) is under right condition.
9	Error during the download process. Error	Download data file operation error.
	code: 0xXXXXXXXX	[TROUBLESHOOTING]
		Restart maintenance program after confirming the selected download file is not abnormal and
10		not using other application.
10	An error. [0xXXXXXXX]	The error occurred except the above errors.
		[TROUBLESHOOTING]
		Restart maintenance program after confirming communication device of PC(either COM or
		parallel) is under right condition.

2. Key operator program list

Note: Some programs on the key operator program list may be unavailable depending on the machine and installing status of various peripheral devices.

A. Common program of digital copier

	Key operator programs	Set value (*: Default value)	Remarks
Account control	Auditing mode	ON / OFF*	When this is set to ON, the department number must be registered in the "Account number control".
	Total pages per account	_	
	Resetting account	_	
	Account number control	_	
	Account limit setting	_	
	Account number security	ON / OFF*	
	Cancel jobs of invalid accounts	ON / OFF*	
Energy save	Auto power shut-off	ON* / OFF	
	Auto power shut-off timer	1 – 240 (Increment of 1min.) 60 (min.)*	Effective only when the "Auto power shut-off" is set to ON.
	Preheat mode setting	1 – 240 (Increment of 1min.) 15 (min.)*	
	Toner save mode	ON / OFF*	This is not displayed for SUK.
Operation settings	Auto clear setting	10 - 240 (Increment of 10sec.) 60 (sec.)*	
	Message time setting WWW.SEF	1 - 12 (Increment of 1sec.) 6 (sec.)*	

	Key operator program	S	Set value (*: Default value)	Remarks
Operation settings	Keys touch sound	Keys touch sound	Short* / Long	
		Keys touch sound at initial point	ON / OFF*	
	Touch key operation	Time to entry	0.0 - 2.0 (Increment of 0.5sec.) 0.0 (sec.)*	
	setting Disable auto key repeat		ON / OFF*	
	Disable interrupt print	t job	ON / OFF*	When the printer function is valid.
	Stream feeding mode)	ON / OFF*	When the reversing single pass feeder installed.
	Display language set		The number of languages to be set and the default value differ depending on destinations.	[List of languages to be set] American English, English, Spanish French, German, Italian, Hungarian, Czech, Polish, Russian, Greek, Turkish, Slovak, Dutch, Swedish, Norwegian, Finnish, Danish, Portuguese, Hebrew, Simplified Chinese, Traditional Chinese
	Disable display timeo		ON / OFF*	
	Disable of tray setting	js	ON / OFF*	
Device control	Disabling of document feeder		ON / OFF*	When the reversing single pass feeder installed.
	Disabling of duplex		ON / OFF*	
	Disabling of stapler		ON / OFF*	When the finisher installed.
	Output trays		Pattern 1* / Pattern 2 / Pattern 3 / Pattern 4	When an option of paper exit series is installed.
	Offset function setting	g	ON* / OFF	
	Memory for printer		30 / 40 / 50* / 60 / 70%	
	(When the printer function is valid.)	Memory area for print hold	0 / 30* / 40 / 50 / 60 / 70% (0%: Function inhibited)	When the PCL printer expansion board is installed or the model with the board.
	Disabling of center tra	ay counting	ON / OFF*	
	Return from copy mo	de timing	1 - 60 (Increment of 1sec.) 60 (sec.)*	When the printer function or the FAX function is valid.
	MIX size original feed	ling mode	ON / OFF*	When the reversing single pass feeder installed.
Key operator code of	change		00000* (5 digits)	
Product key	PS3 expansion kit			When the printer function is valid.
(When the printer function is valid.)	Network scanner expansion kit		_	Appears when the printer expansion kit and expansion memory are installed.
	E-MAIL alert and stat	us	_	When the PCL printer expansion board is installed or the model with the board.
	Serial number		_	

B. Copy function setting program

	Key operator programs	Set value (*: Default value)	Remarks
Copy settings	Initial status settings	_	
	Rotation copy setting	ON* / OFF	
	Exposure adjustment	1/2/3*/4/5	
	Auto paper selection setting	Plain paper* / Plain and recycle paper	
	Setting a maximum number of copies	1 – 999 999*	
	Sort auto select	ON* / OFF	When the reversing single pass
			feeder installed.
	Disabling deletion of job programs	ON / OFF*	

C. Printer function setting program

Key operator programs		Set value (*: Default value)	Remarks
Print settings		<u>.</u>	
Default settings	Prohibit notice page printing	ON / OFF*	
	Print density level	1/2/3*/4/5	
	Prohibit test page printing	ON / OFF*	When the PCL printer expansion
			board is installed or the model with
			the board.
	Rotated print	ON* / OFF	
	Forced output of print	ON / OFF*	
	Excluded bypass-tray from ATS	SER ON TOFF A ANTIAL NET	

	Key operator programs	Set value (*: Default value)	Remarks
Default settings	Disable default setting changes	ON / OFF*	When the PCL printer expansion
			board is installed or the model with
			the board.
Interface settings	Hexadecimal dump mode	ON / OFF*	When the PCL printer expansion
			board is installed or the model with
			the board.
	I/O timeout	1 – 999 (Increment of 1sec.) 180 (sec.)*	
		(60 (sec.)*: When the PCL printer	
		expansion board is installed or the model	
		with the board.)	
	Parallel port emulation switching	Auto* / PostScript (When the PS3	When the PCL printer expansion
		expansion kit is installed.) / PCL	board is installed or the model with
			the board.
	USB port emulation switching	Auto / PostScript (When the PS3 expansion	When the PCL printer expansion
		kit is installed.) / PCL*	board is installed or the model with
			the board.
	Network port emulation switching	Auto* / PostScript (When the PS3	When the PCL printer expansion
		expansion kit is installed.) / PCL	board is installed or the model with
			the board.
	Port switching method	Switch at end of job* / Switch after I/O	When the PCL printer expansion
		timeout	board is installed or the model with
			the board.
	Enable parallel port	ON* / OFF	When the PCL printer expansion
			board is installed or the model with
			the board.
	Enable USB port	ON* / OFF	When the PCL printer expansion
			board is installed or the model with
			the board.
	Enable network port	ON* / OFF	When the print server card
			installed.
	Enable ECP	ON / OFF*	When the PCL printer expansion
			board is installed or the model with
			the board.
Network settings	IP address setting	DHCP: ON* / OFF	When the PCL printer expansion
(When the print			board is installed or the model with
server card			the board (Also displayed when the
installed.)			print server card is not installed.)
			To enable the changed setup, the
			power must be rebooted.
	Enable TCP/IP	ON*/OFF	To enable the changed setup, the
	Enable NetWare	ON* / OFF	power must be rebooted.
	Enable EtherTalk	ON*/OFF	-
	Enable NetBEUI	ON* / OFF	
	Reset the NIC		When the PCL printer expansion
			board is installed or the model with
		_	the board (Also displayed when the
			print server card is not installed.)To
			enable the changed setup, the
Initialize and/or	Bostoro fostony default		power must be rebooted.
Initialize and/or	Restore factory default		
store settings (When the PCL	Store current configuration	_	
printer expansion	Restore configuration		Reboot is required only when the
board is installed			network setting is changed.
or the model with		—	
	1		1

D. Network scanner function setting program

Key operator programs		Set value (*: Default value)	Remarks	
Scanner settings	Initial file format	File type	PDF / TIFF*	
(When the scanner function is valid.)	setting	Compression mode	No compression / MH (G3) / MMR (G4)*	
		Pages per file	ALL*	
	Initial quality setting	Original image type	TEXT / TEXT/PHOTO* / PHOTO	
		Exposure	Auto* / Manual (1 / 2 / 3 / 4 / 5)	
	Initial resolution settir	ng	200dpi / 300dpi* / 400dpi / 600dpi	(400dpi: For China, Taiwan)
	Default display settin	gs	Condition settings* / Address book /	
			Address book (ABC) / Address book	
			(Group)	
	The number of direct address/sender keys displayed setting		6 / 8* / 12 (pcs.) VICE-MANUAL.NET	

3. E-mail Status/E-mail Alerts

A. Basic functions

- 1) Event driven type text message transmission by using MIB information of Printer control board.
- 2) Management information which body has is coded and transmitted in a file type according to the schedule or in the event driven type. In this case, the specified mail software is used to receive and develop the data.

The above functions are available as standard provision only when the NIC card are installed.

For 2), the software key protect is made.

B. Main body specifications

The body provides event information to the controller. according to setup the file can be transmitted as an attached file as information for dealers. When a dealer's mail address is set, a file can be attached only to a mail which is transmitted to the mail address.

To read the attached file, the specified mail software is required. That is, the attached file includes numeral information of each main body and event information in coded state. If the other mail software is used to receive, the display contents on the client side cannot be guaranteed.

C. Printer controller specifications

The controller supports the following transmission functions:

- Text mail transmission by event driven setup and schedule driven setup.
- Mail transmission with an attached file by event driven setup and schedule driven setup. For the attached file, the printer controller makes a file of information data from the MCU.
- It controls sending time and requests for the machine information at the sending time to the MCU.

(1) Additional machine information

Information to identify the machine. The user administrator manually enters this information by using a browser. The information is displayed in the text of the mail.

- * These items of information are kept on the controller side or on the NIC side.
- Machine name
- Machine code
- Installation place

(2) Alert Message

(2)	2) Alert Message				
ID	Event	Message	Condition		
1	Paper Jam	!!! MISFEED HAS OCCURRED !!!	When paper/document jam has occurred. If a jam is detected when the power is		
			turned ON or reset, checking is made again.		
2	Toner Low	<pre>!!! TONER SUPPLY IS LOW !!!</pre>	When toner LOW is detected for the first time. If toner LOW is detected when the		
			power is turned ON or reset, checking is made again.		
3	Toner Empty	!!! ADD TONER !!!	When toner empty is detected for the first time. If toner empty is detected when		
			the power is turned ON or reset, checking is made again.		
4	Paper Empty	!!! LOAD PAPER/XXX !!!	When paper empty is detected for the first time. If paper empty is detected when		
			the power is turned ON or reset, checking is made again. No information on the		
			number of steps of trays. Manual feed is not supported. When a tray empty is		
			detected, information of all the trays that are empty at that time is delivered.		
5	Service Required	<pre>!!! CALL FOR SERVICE !!!</pre>	When the machine enters the self-diagnosis mode. If detected when the power is		
			turned ON or reset, checking is made again.		
6	PM Required	!!! MAINTENANCE REQUIRED !!!	When the maintenance counter or the developer counter reaches the specified		
			count. If detected when the power is turned ON or reset, checking is made again.		

(3) Status Message

Counter information

When schedule driven is set, the total counter, the copy counter, and the printer counter are displayed in a mail address for general. These information items are supplied from the controller MIB. The "total counter" means the "effective paper counter" controlled by the MCU.

Timer information

For schedule drive message, the Printer controller controls transmission time by means, and transmits a mail.

Timer setup is made from the Web setup page.

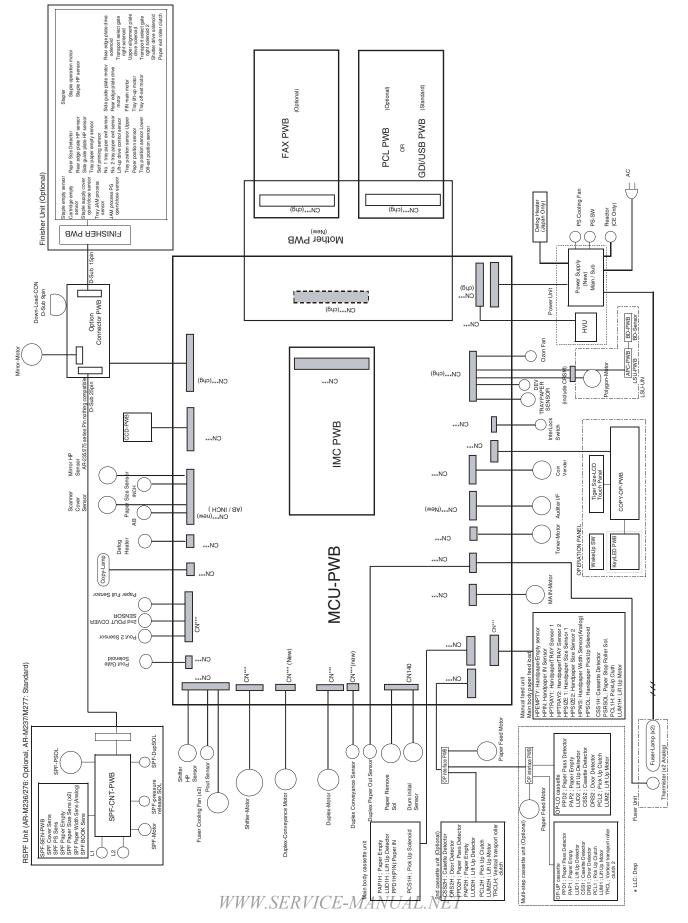
D. Handling of transmission data

In E-mail Alerts and E-mail Status, a transmission task is generated regardless of the job which is under process in the machine. These tasks are processed in the following rules:

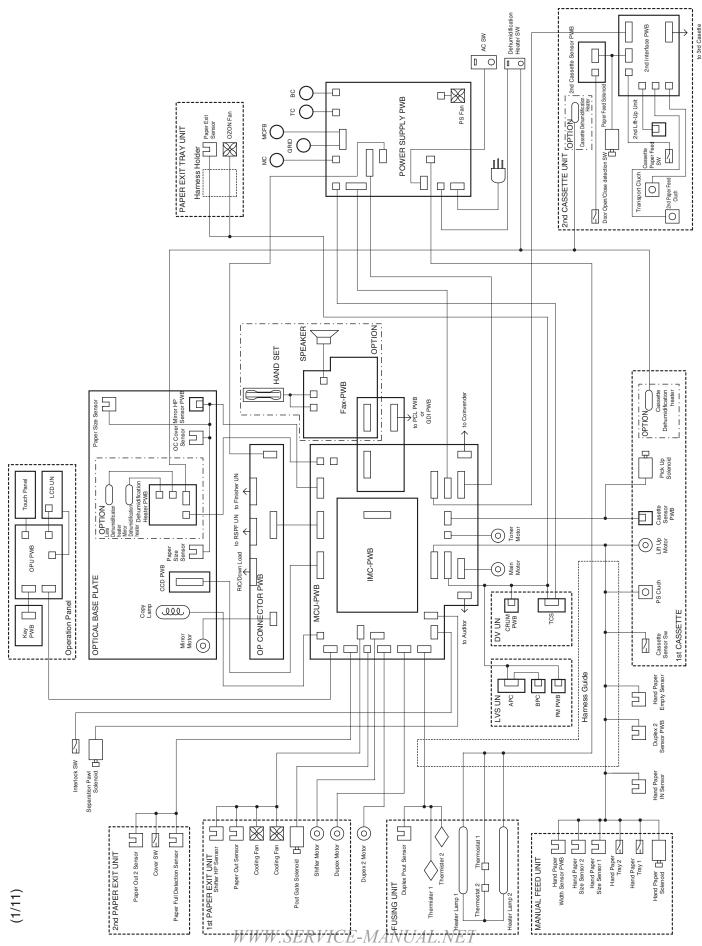
- When the machine receives a mail transmission request during a job process (copy scan, copy output, print output, other process) of the machine, it performs transmission process regardless of the job.
- When the machine receives a mail transmission request under other situation, if the job is triggered during transmission process, the job is started.
- When the machine receives a mail transmission request during the simulation mode, the request is accepted and transmission process is started.
- When the machine receives a mail transmission request during the key operator program, it is accepted and transmission process is started.
- When the controller sends two or more requests during a job, only the last request is accepted.

[12] ELECTRICAL SECTION

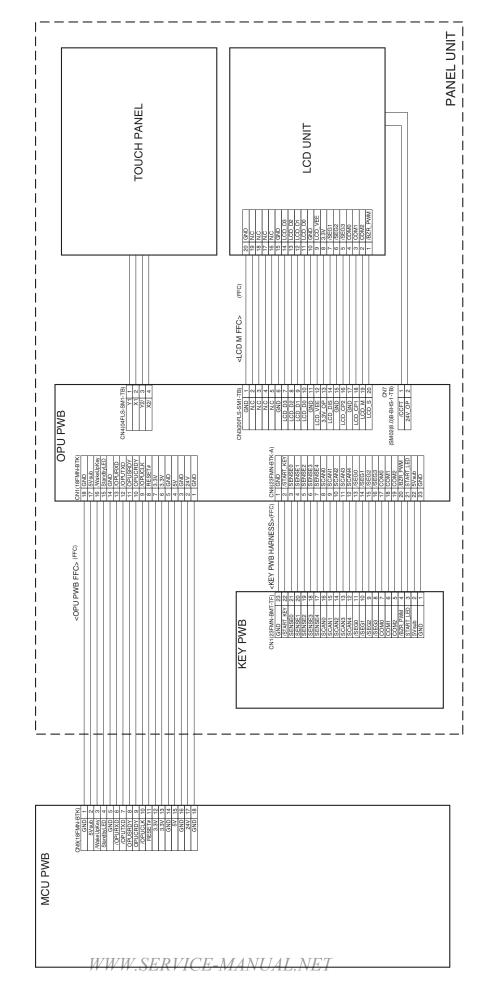
1. Block diagram



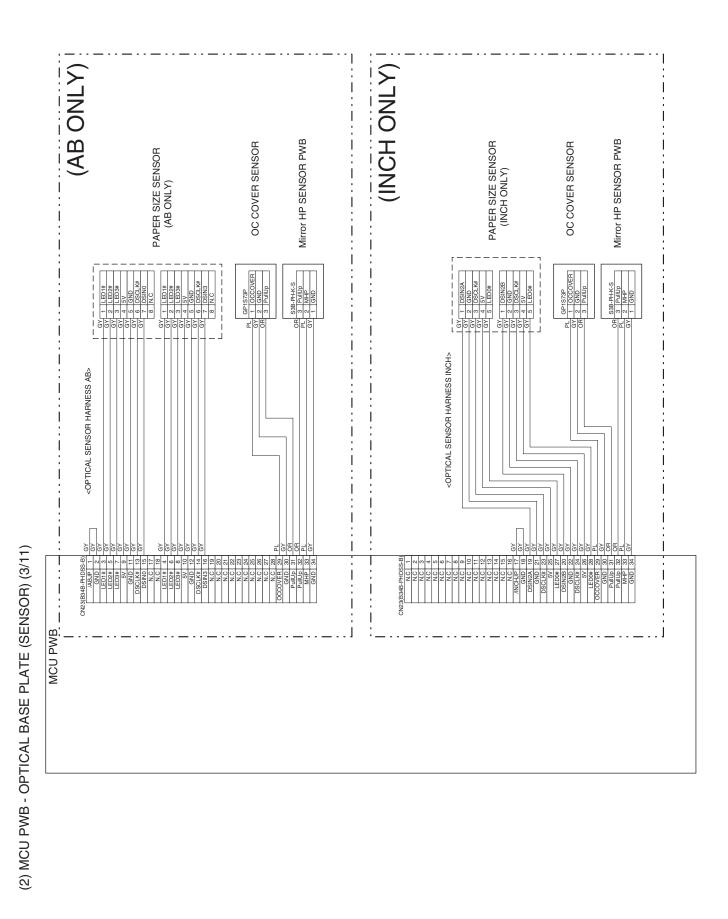
2. Actual wiring diagram

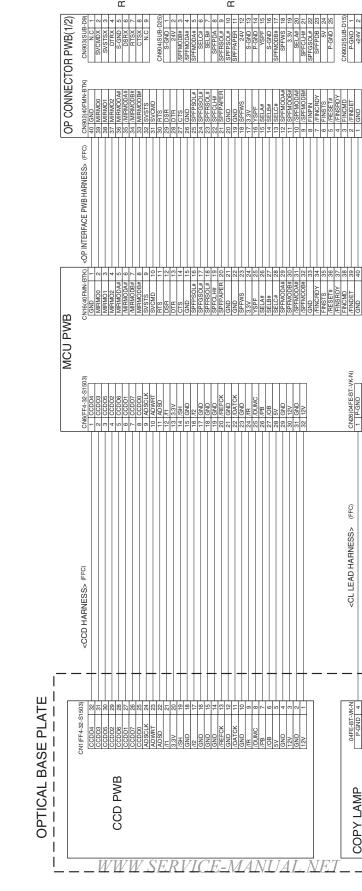


AR-M236/M276/M237/M277 ELECTRICAL SECTION 12 - 2



(1) MCU PWB - OPERATION PANEL UNIT (2/11)





RIC / DOWN LOAD

RSPF

FINISHER

+24V 2 FINGRDY 3 FINSTS 4 /RESET# 5 FINPIN 6 P-GND 8 S-GND 8

CN902(SUB-D15)

FINSTS /RESET# /FINSRD FINCMD - 10 10 4 10 10 -

CN26(04FE-BT-VK-N) 2 P-GND 3 /CL 4 24V

(FFC)

<CL LEAD HARNESS>

04FE-BT-VK-N P-GND 4 P-GND 3 /CL 2 24V 1

COPY LAMP UNIT

 Λ

0

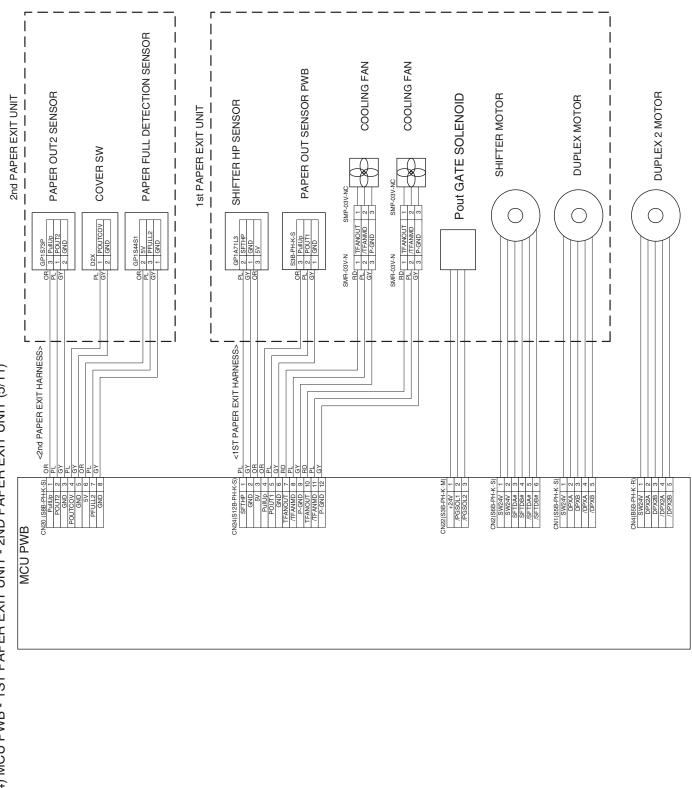
MIRROR MOTOR

/FINDET 14 S-GND 15

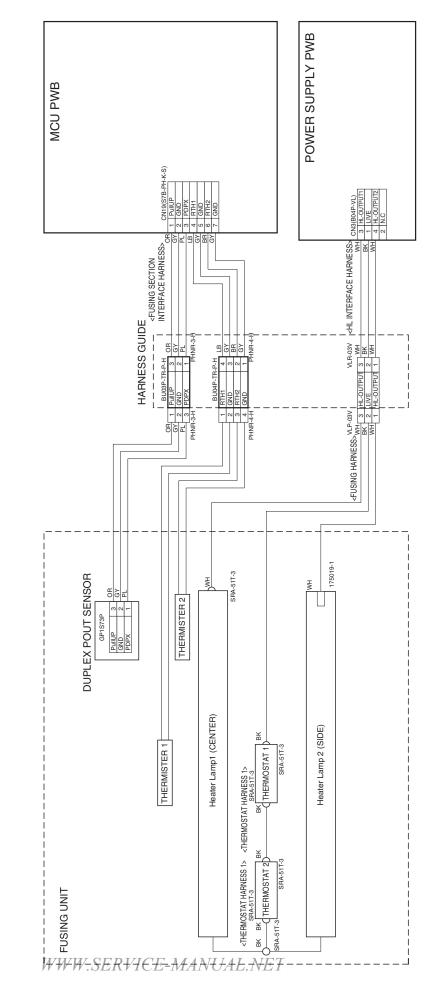
CN906(52147-051 1 MMA 2 MMB 3 /MMA 4 /MMB 5 +24V

/FINSH

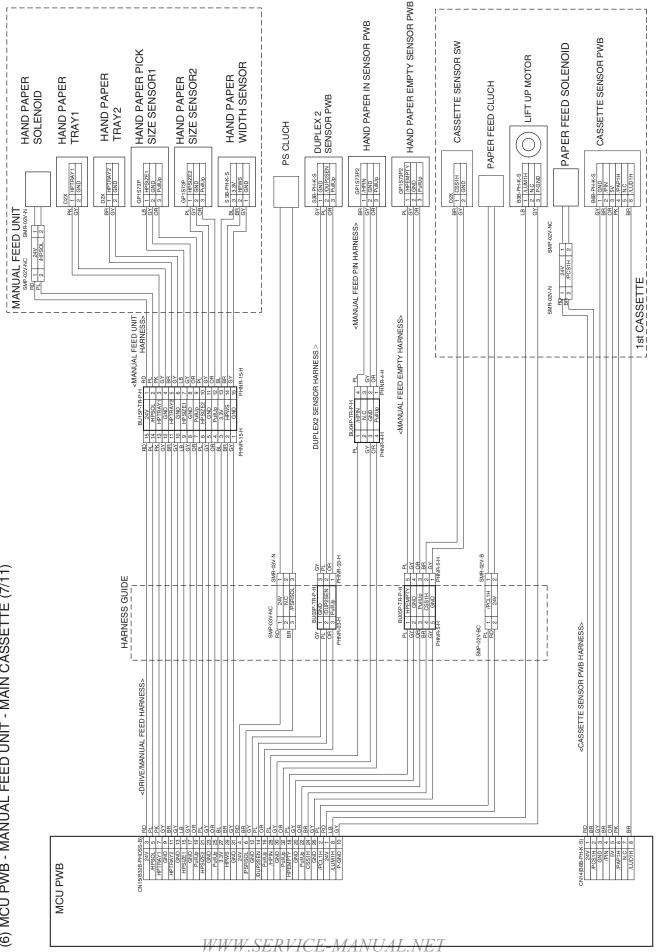




(4) MCU PWB - 1ST PAPER EXIT UNIT - 2ND PAPER EXIT UNIT (5/11)

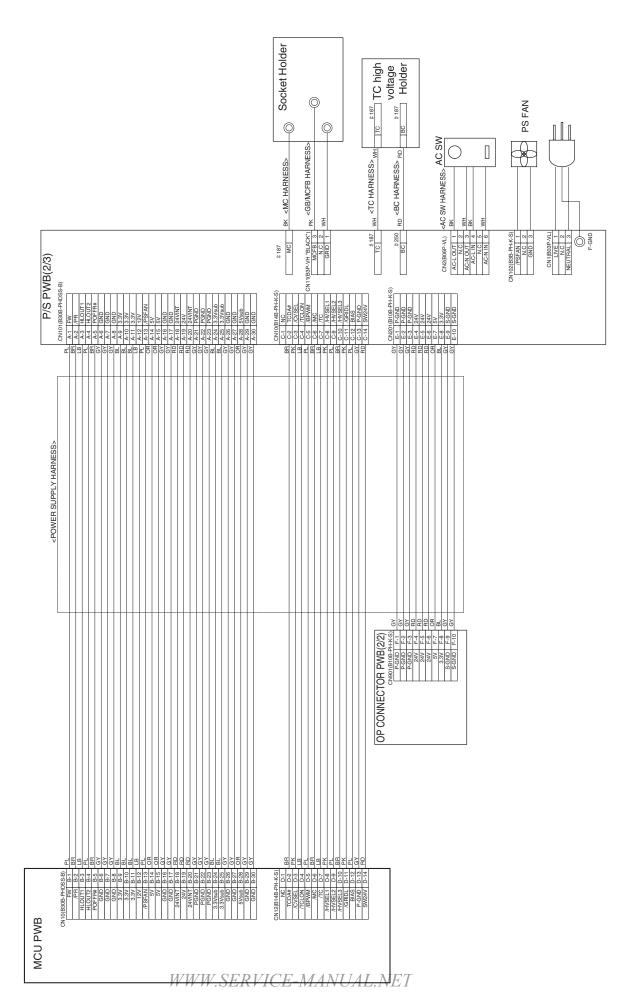


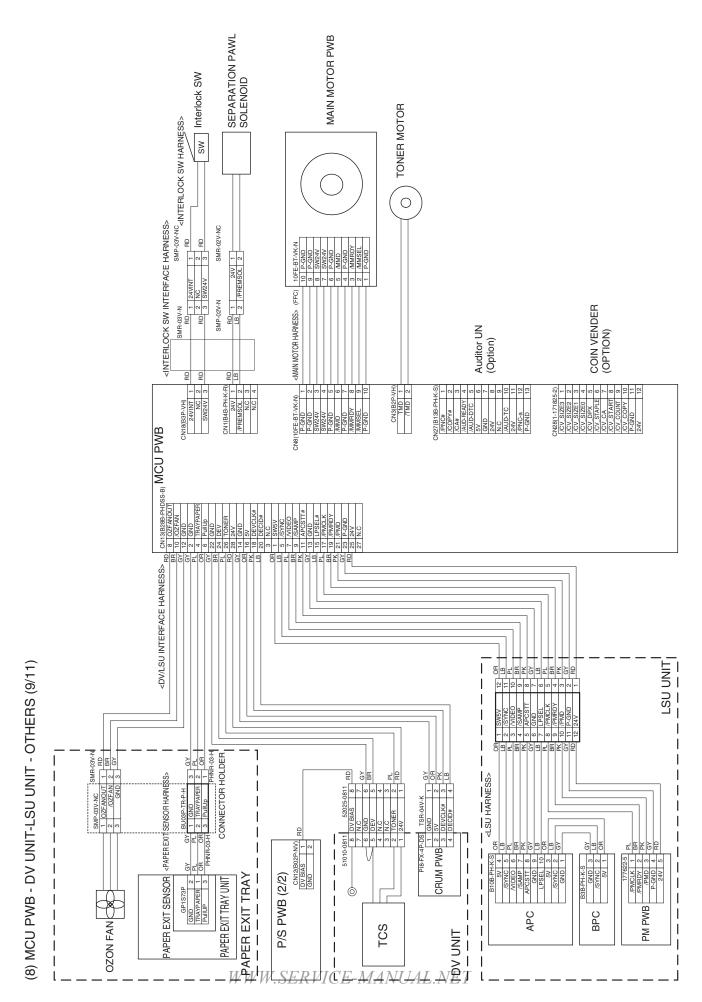
(5) MCU PWB - FUSING UNIT - POWER SUPPLY PWB (6/11)

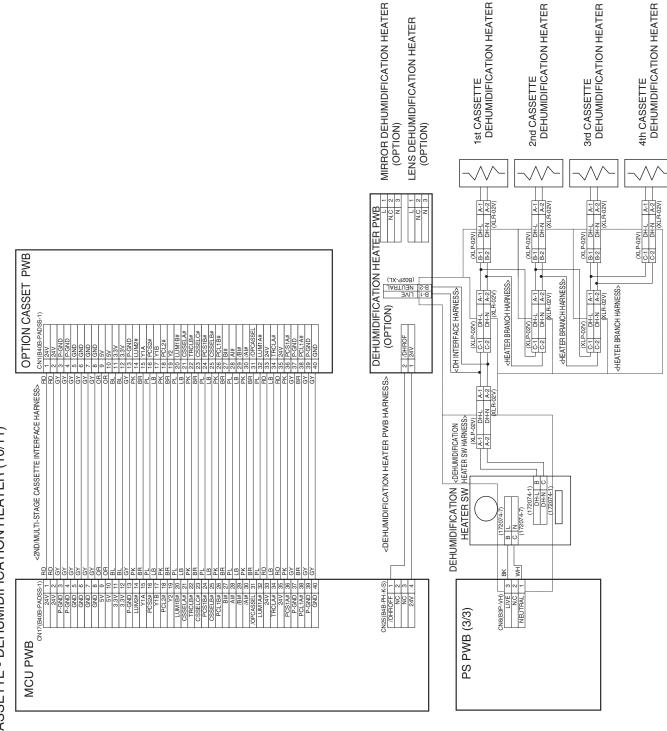


(6) MCU PWB - MANUAL FEED UNIT - MAIN CASSETTE (7/11)

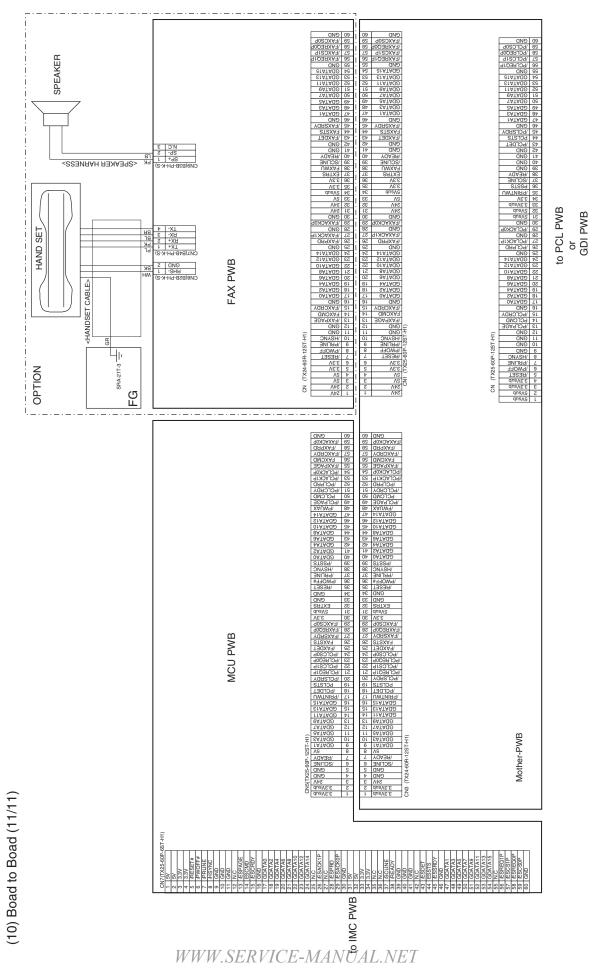








(9) MCU PWB - OPTION CASSETTE - DEHUMIDIFICATION HEATER (10/11)



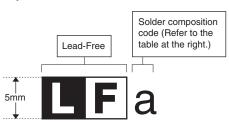
AR-M236/M276/M237/M277 ELECTRICAL SECTION 12 - 12

LEAD-FREE SOLDER

The PWB's of this model employs lead-free solder. The "LF" marks indicated on the PWB's and the Service Manual mean "Lead-Free" solder.

The alphabet following the LF mark shows the kind of lead-free solder.

Example:



<Solder composition code of lead-free solder>

Solder composition	Solder composition code
Sn- <u>A</u> g-Cu	а
Sn-Ag- <u>B</u> i Sn-Ag- <u>B</u> i-Cu	b
Sn- <u>Z</u> n-Bi	Z
Sn- <u>I</u> n-Ag-Bi	i
Sn-Cu- <u>N</u> i	n
Sn-Ag-Sb	S
Bi-Sn-Ag- <u>P</u> Bi-Sn-Ag	р

(1) NOTE FOR THE USE OF LEAD-FREE SOLDER THREAD

When repairing a lead-free solder PWB, use lead-free solder thread. Never use conventional lead solder thread, which may cause a breakdown or an accident.

Since the melting point of lead-free solder thread is about 40°C higher than that of conventional lead solder thread, the use of the exclusiveuse soldering iron is recommendable.

(2) NOTE FOR SOLDERING WORK

Since the melting point of lead-free solder is about 220°C, which is about 40°C higher than that of conventional lead solder, and its soldering capacity is inferior to conventional one, it is apt to keep the soldering iron in contact with the PWB for longer time. This may cause land separation or may exceed the heat-resistive temperature of components. Use enough care to separate the soldering iron from the PWB when completion of soldering is confirmed.

Since lead-free solder includes a greater quantity of tin, the iron tip may corrode easily. Turn ON/OFF the soldering iron power frequently.

If different-kind solder remains on the soldering iron tip, it is melted together with lead-free solder. To avoid this, clean the soldering iron tip after completion of soldering work.

If the soldering iron tip is discolored black during soldering work, clean and file the tip with steel wool or a fine filer.

CAUTION FOR BATTERY REPLACEMENT

ADVARSEL!

(Danish)

(French)

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandoren.

(English) Caution ! Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.

Dispose of used batteries according to manufacturer's instructions.

(Finnish) VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

ATTENTION

Il y a danger d'explosion s' il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par

le constructeur. Mettre au rebut les batteries usagées conformément aux

instructions du fabricant. VARNING

(Swedish)

Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

Achtung

(German) Explosionsgefahr bei Verwendung inkorrekter Batterien. Als Ersatzbatterien dürfen nur Batterien vom gleichen Typ oder vom Hersteller empfohlene Batterien verwendet werden. Entsorgung der gebrauchten Batterien nur nach den vom Hersteller angegebenen Anweisungen.

CAUTION FOR BATTERY DISPOSAL

(For USA, CANADA)

"BATTERY DISPOSAL" THIS PRODUCT CONTAINS A LITHIUM PRIMARY (MANGANESS DIOXIDE) MEMORY BACK-UP BATTERY THAT MUST BE DISPOSED OF PROPERLY. REMOVE THE BATTERY FROM THE PRODUCT AND CONTACT YOUR LOCAL ENVIRONMENTAL AGENCIES FOR INFORMATION ON RECYCLING AND DISPOSAL OPTIONS.

"TRAITEMENT DES PILES USAGÉES" CE PRODUIT CONTIENT UNE PILE DE SAUVEGARDE DE MÉMOIRE LITHIUM PRIMAIRE (DIOXYDE DE MANGANÈSE) QUI DOIT ÊTRE TRAITÉE CORRECTEMENT. ENLEVEZ LA PILE DU PRODUIT ET PRENEZ CONTACT AVEC VOTRE AGENCE ENVIRONNEMENTALE LOCALE POUR DES INFORMATIONS SUR LES MÉTHODES DE RECYCLAGE ET DE TRAITEMENT.



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